

PowerFocus®

*EverFocus Central Management Software
for Network Video Recording*



USER'S MANUAL



Release Date: August, 2011 Rev. 1.0

System requirements

Total FPS	3600 ~ 1200	1200 ~ 480	480 ~ 300	300 ~ 200	200 ~ 0
CPU	Intel Core i7 Q740	Intel Core i5 750	Intel Q8400	Intel Core2 6300	Intel P4 3.0G
RAM	4GB	2GB	2GB	2GB	1GB
	8 GB recommended for larger systems				
Display	Graphics card with DirectX 9.0c; video memory of 512MB or above				
Ethernet	Ethernet, 1Gbit recommended				
Hard Disk	80GB or above				
OS	Windows XP, Windows Vista, Windows 7 (32,64 bit support) Microsoft.Net runtime environment (included in installation package)				

***1. The maximum decode frame rate not considering Ethernet connection speed. Video format:**

MPEG4, resolution: 640*480, quality: medium/normal.

***2. Figures above can vary due to difference in video source and system setup.**

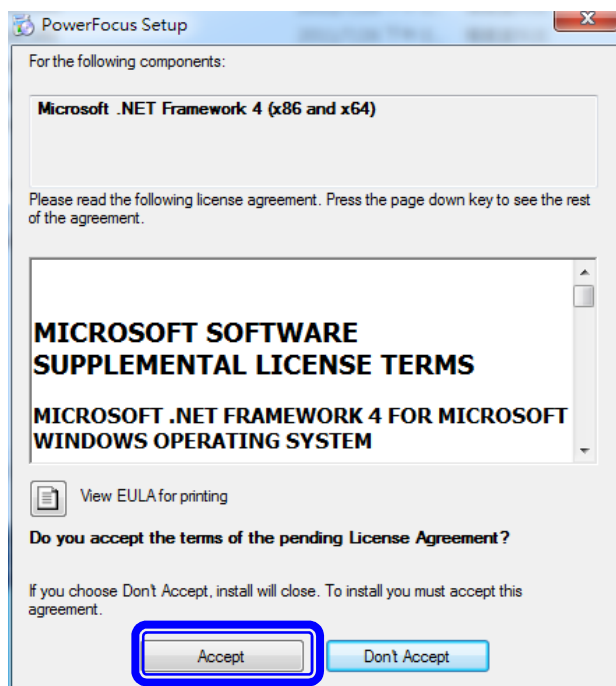
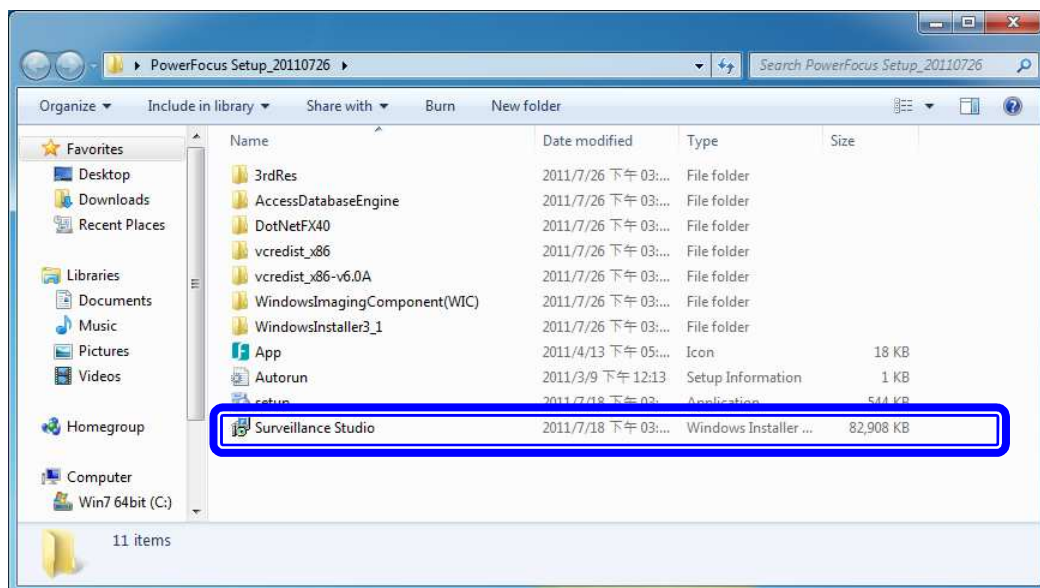
Software installation and removal

Download PowerFocus® software from EverFocus official website

<http://www.everfocus.com.tw/> → Download → Software → PowerFocus

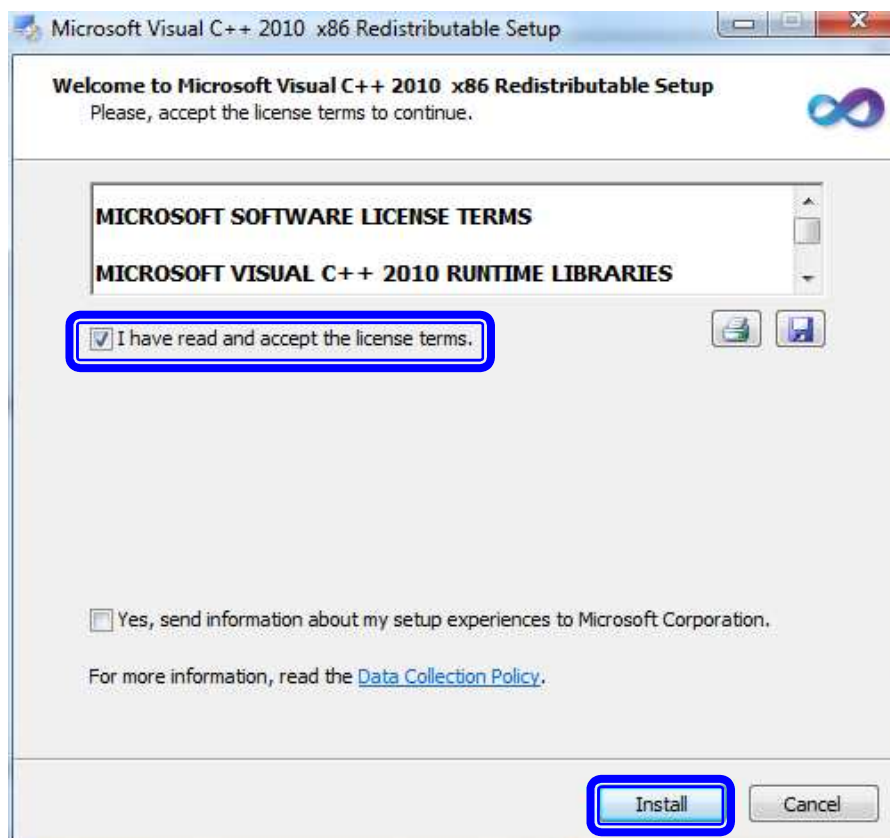
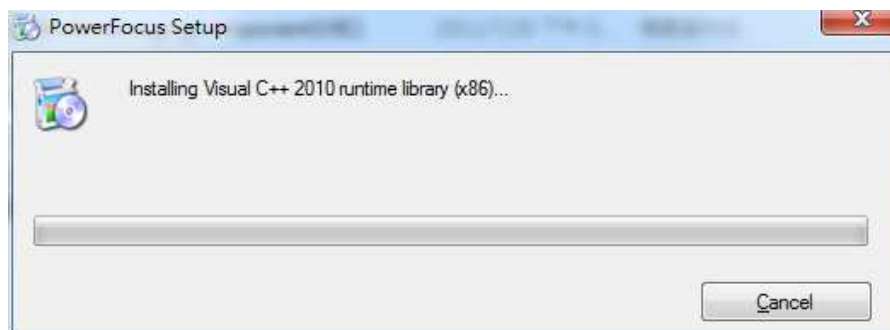
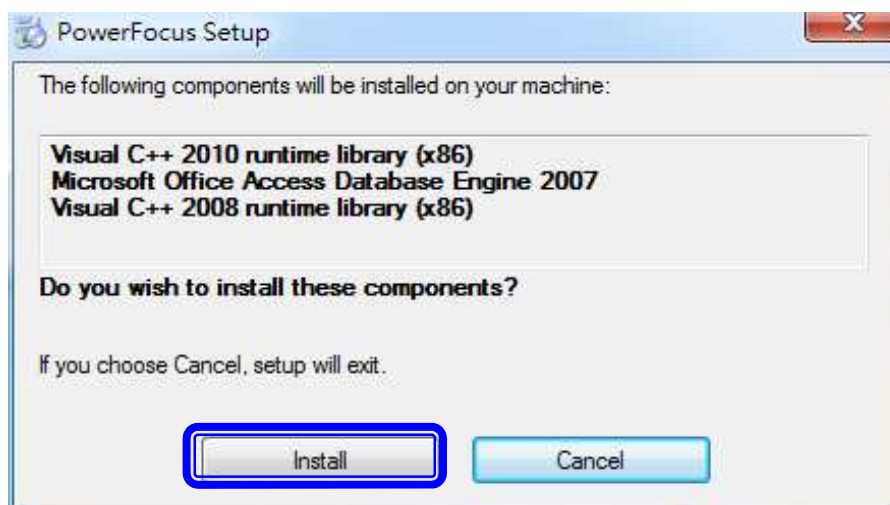
Extract the zip file. Please double click Setup.exe to commence installation.

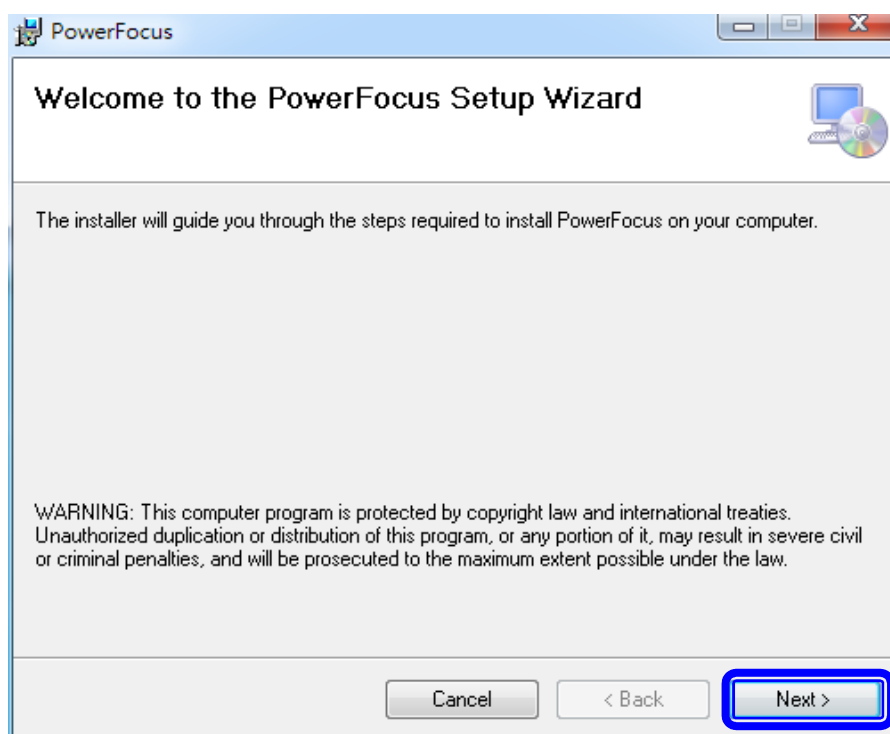
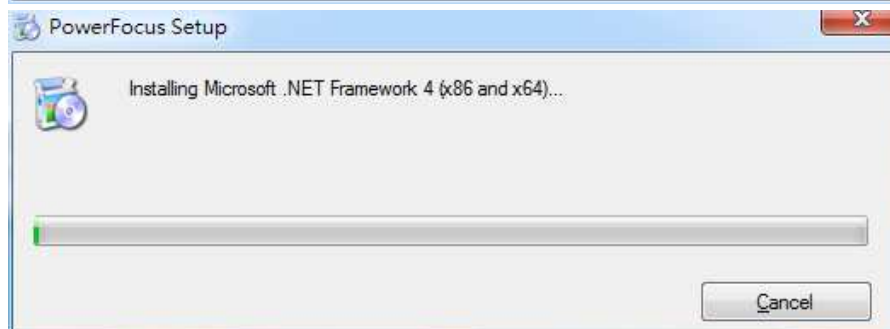
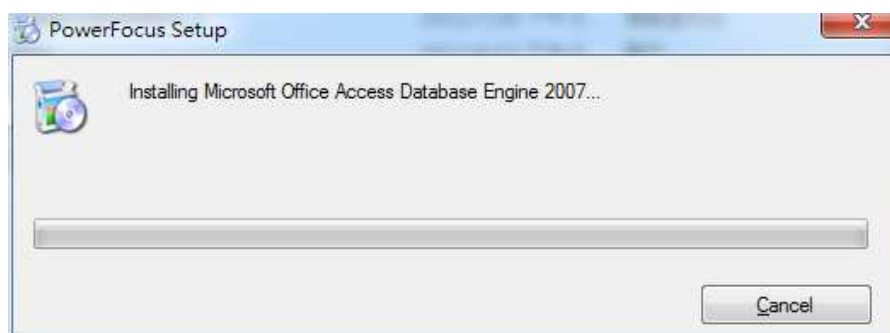
Follow the installation screen shots below to install software:



Note: Installation of .Net Framework might take a while please be patient.

Note: Due to different computer setups, a system reboot might be required.



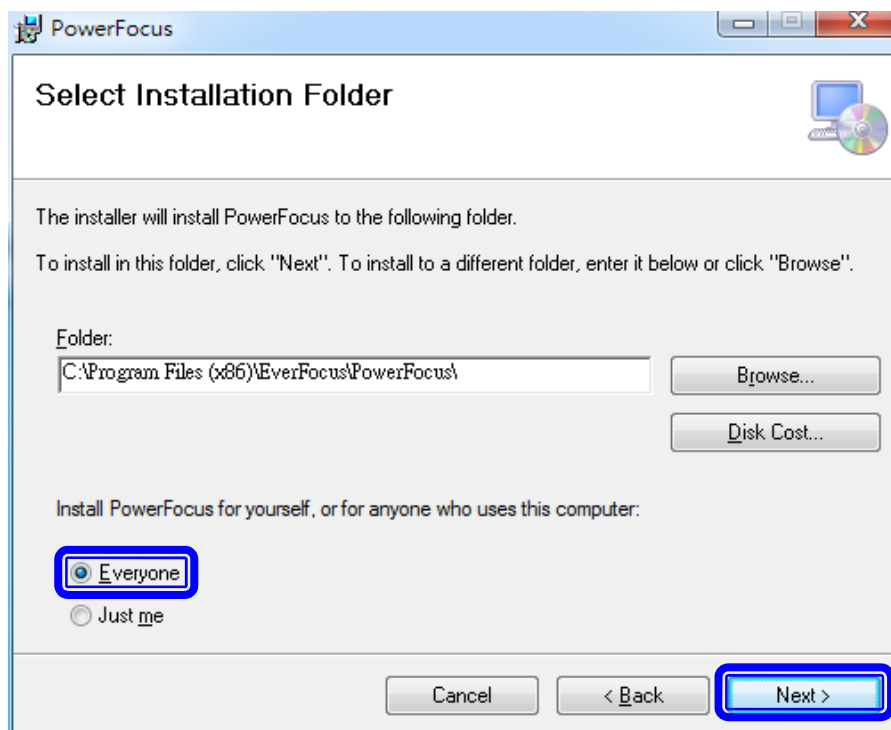


Software license agreement, click 'I Agree' if you accept the terms. Click 'Next' to continue.

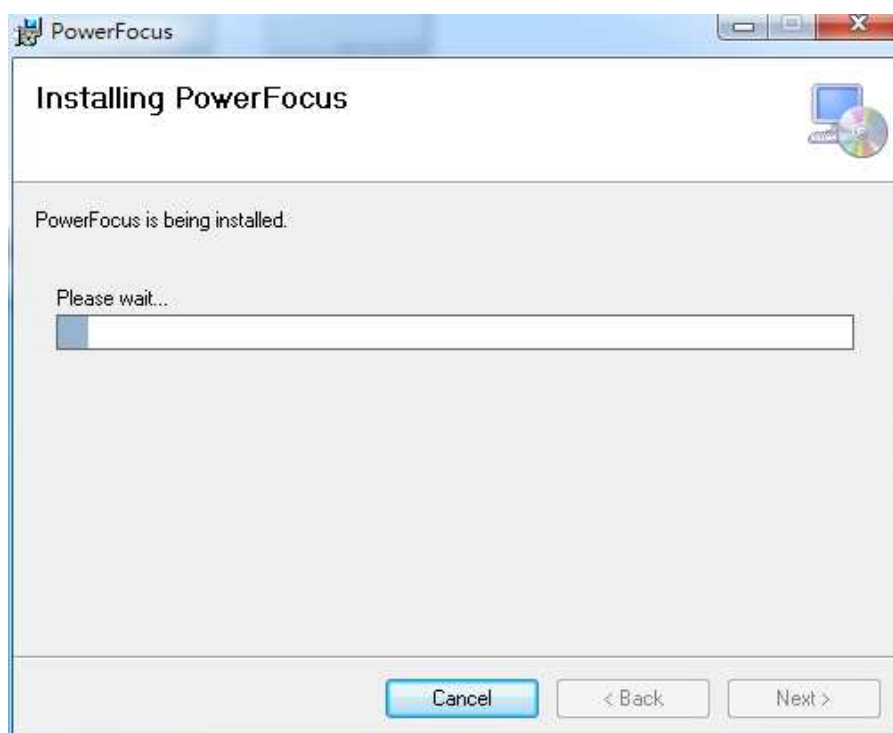
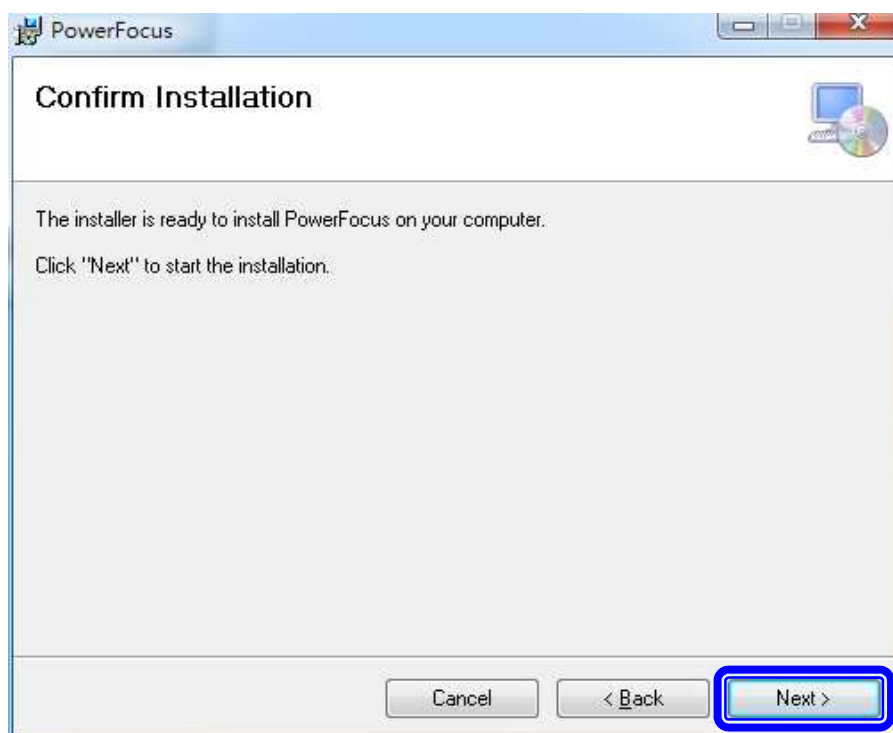
If you decline the terms, please click 'Cancel' to cancel the installation process.



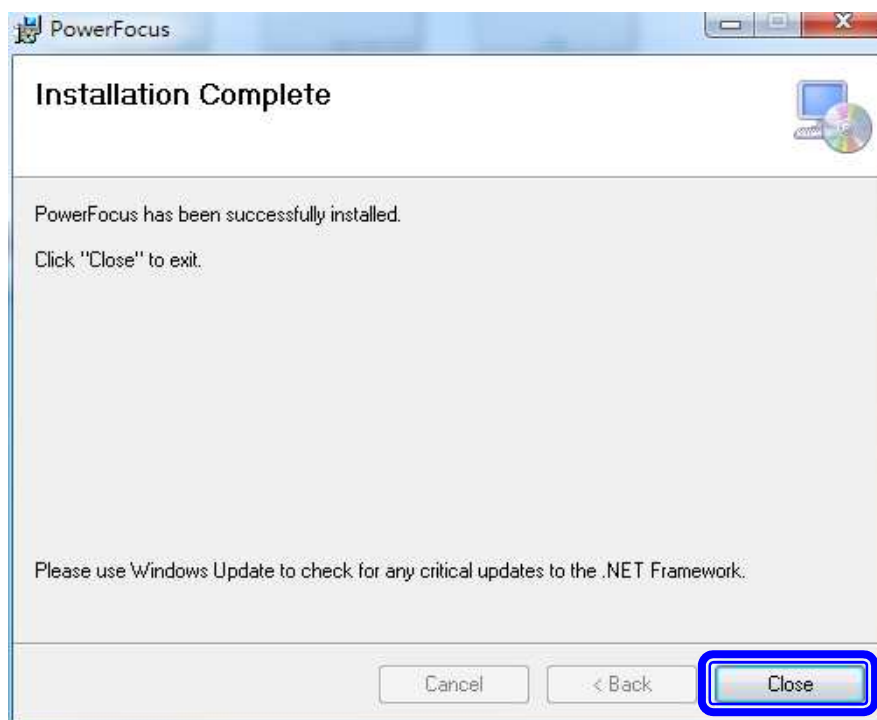
Select the installation destination location. It is recommended to select the default location.



Note: If the installation is a software update, please select the destination location used in the last installation.



Installation complete. Click 'Close' to complete the installation process.



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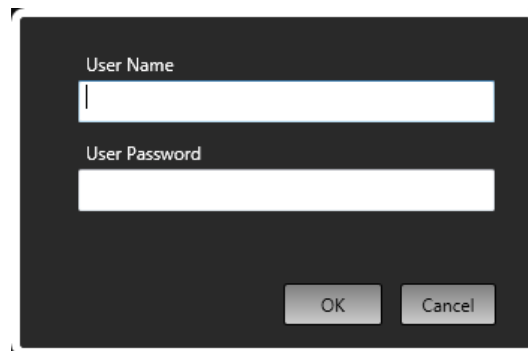
1 Monitoring

1.1 Starting the Program

Method1: Double click ' PowerFocus®' icon on desktop

Method2: Execute 'PowerFocus®' in Start → All Programs → EverFocus.

When the program starts up, a pop out window will appear requesting user name and password. The default username and password are both 'admin'.



Log-In Window

Tip: You should change the password immediately after your first login, please refer to *Settings* for instructions.

1.2 Quick Start

Quick Start buttons allows you to quickly perform an operation. The available Quick Start buttons are 'Full Screen', 'Monitor Frames Boarder Lines', 'OSD', 'Screen Lock' and 'Power-Saving Mode'. Their functionalities are described below:

1.2.1 Full Screen



Resize the main view frame to full screen. Press the button again or the ESC key to cancel full screen view.

1.2.2 Monitor Frames Border Lines



Display boarder lines on monitor frame. Please refer to *Settings* for setting different boarder line colors.

1.2.3 OSD



Show OSD on monitor frames. Each monitor frame can display the status of individual connected camera. Please refer to *Settings* for more advanced OSD settings.

1.2.4 Screen Lock



Press button to lock CMS screen and hide monitoring screen. A valid user account name and password is required to unlock. 'Screen Lock' button can also be used to switch active user account to change user privilege.

Note: The default username and password of this monitoring software is 'admin'.

Hint: You can use 'Screen Lock' button to quickly switch active user account.

1.2.5 Power-Saving Mode



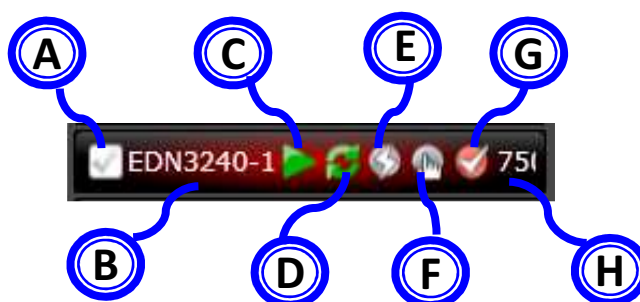
In 'Power-Saving Mode', CMS will operate using minimal computer resource. Generally, 'Power-Saving Mode' will only occupy 1/3 to 1/8 of the computer's total resource. If your computer's processing speed is not fast enough, you can select 'Power-Saving Mode' to attain maximum IP camera connections.

Note: The processing principle behind 'Power-Saving Mode' is to only decode I-Frame of H.264 and MPEG4 camera streaming. If MJPEG is used, frames are decoded at a rate of 1 per 800ms.

1.3 Camera List

1.3.1 Camera Status Check

In camera list, each row represents a camera's current status as shown below:



Camera Selection Tick Box (A): A tick here represents the camera has been selected.

Name (B): Name given to the camera.

Active (C): Green indicates the camera is active. Grey means camera is not active.

Link (D): Green indicates software is linked to the camera. Grey means it is not.

Event Recording(E): Red indicates the camera is currently executing event recording. Grey means it is not.

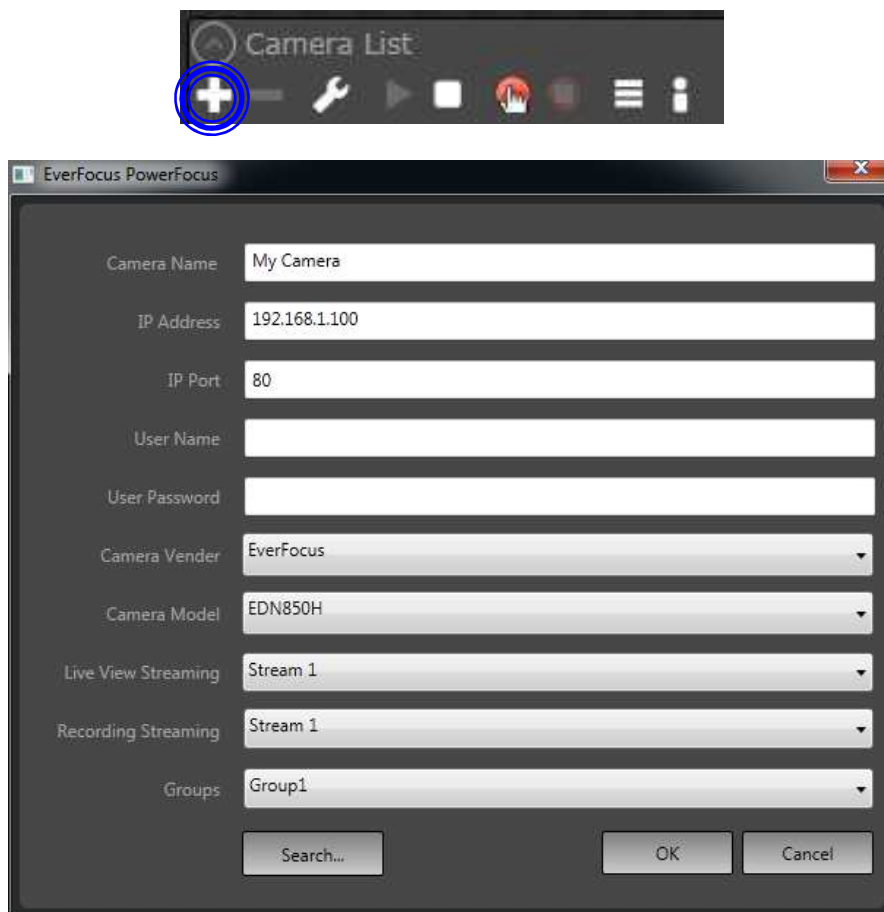
Manual Recording(F): Red indicates the camera is currently executing manual recording. Grey means it is not.

Scheduled Recording(G): Red indicates the camera is currently executing scheduled recording. Grey means it is not.

Speed(H): Indicates the camera's current video streaming rate in kbps.

1.3.2 Adding New Camera

Click 'Add' button, a window for adding a new camera will appear as shown below:



Adding new camera window

Camera Name: A descriptive name for the camera.

HTTP Address: Camera's IP address. If it is in a local area network, the IP address is usually set to 192.168.xxx.xxx or 10.0.xxx.xxx.

HTTP Port: If there is no special requirement, set port value to 80.

User Name: Account name used to log into the Camera Server.

User Password: Password that accompanies account name to log into the Camera Server.

Camera Vender/Model: Click 'Search...' to search for camera model automatically. If a match cannot be made, the camera manufacturer and model number will need to be entered manually.

Live View and Recording Channel: If the IP Camera supports multiple video streaming, you can set 'Live View Channel' and 'Recording Channel' as independent streaming. For example, you want to reduce your computer resource loading; you can set the 'Live View Channel' to MJPEG/MPEG4 video stream at a lower resolution, while setting the 'Recording Channel' to MJPEG/H264 video stream at high resolution.

Tip: If the video streams for 'Live View Channel' and 'Recording Channel' are set as independent video streaming, the camera status will always be shown as 'Live View Channel'.

Groups: Add the camera to a group as an alternate camera management method. For more details on advanced settings for 'Groups', please refer to *Settings*.

Search: Auto-search the local network for IP camera, but only supported IP camera models will be detected.

1.3.3 Remove Camera



In order to remove the camera, its status must not be active.

Warning: If a camera is removed, then all recordings data associated with camera will also be deleted.

1.3.4 Edit Camera



The display window will be the same as 'Adding New Camera'. However, the camera manufacturer and camera model fields cannot be edited.

1.3.5 Activate/Stop Camera



Activate the camera. Green camera link icon indicates connection to the camera is successful, and camera is functioning correctly. Grey camera link icon means connection failed, and you can try to reconnect using a different account name, password, IP address or HTTP port.

Tip: If a connection cannot be made, a browser can be used to see if the connection is functional.

1.3.6 Manual Recording



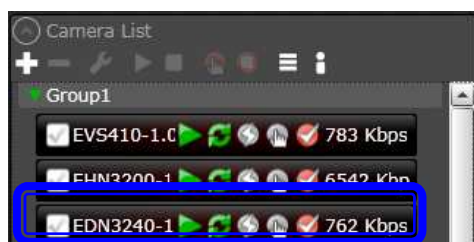
When camera connection is made, 'Manual Recording' button can be clicked at any time to make an instant recording. Click the button again to stop recording.

Tip: 'Manual Recording' supports 'Time Recovery' function. For more details, please refer to *Settings*.

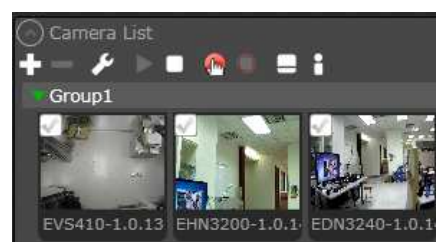
1.3.7 Switching Camera Status Display



Camera status display can be switched between 'Status Display' and 'Video Image Display' as shown below:



Status Display



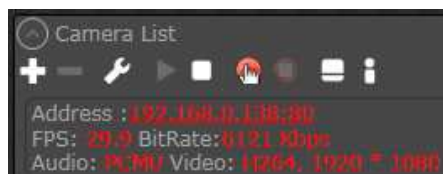
Video Image Display

1.3.8 Advanced Camera Information



Displays advanced camera information. Information consists of IP address, video display speed in FPS (Frames-Per-Second),

connection speed in kbps, audio and video format.



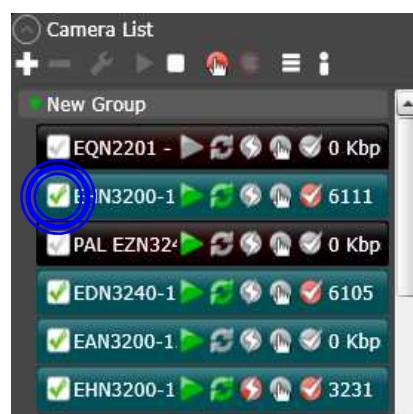
Advanced Camera Status Window

Tip: You can click on 'Address' to open IP Camera's web server home page.

1.3.9 Select Single/Multiple Cameras



Select single camera



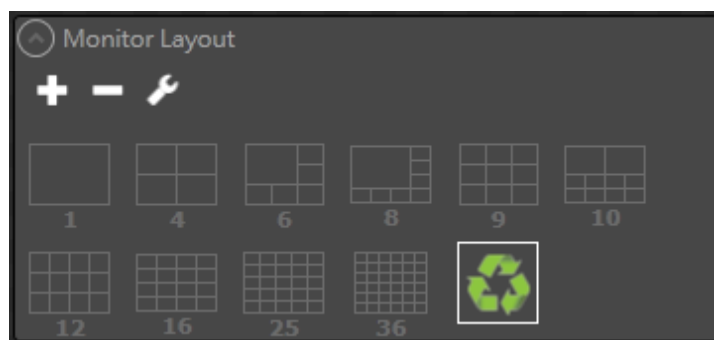
Select multiple cameras

Select Single Camera: Click anywhere on a single row completes the selection.

Select Multiple Cameras: Click on camera selection check boxes to select multiple cameras.

1.4 Monitor Frame

The monitor frame panel displays user defined layout for the viewing frames, such as single frame, four frames and nine frames etc. A number will mark the number of monitor frames in each layout. Once a layout is selected, cameras from the camera list can be dragged and dropped into each viewing frame to view camera streaming. Besides the preset layout, user can insert new monitor frame.



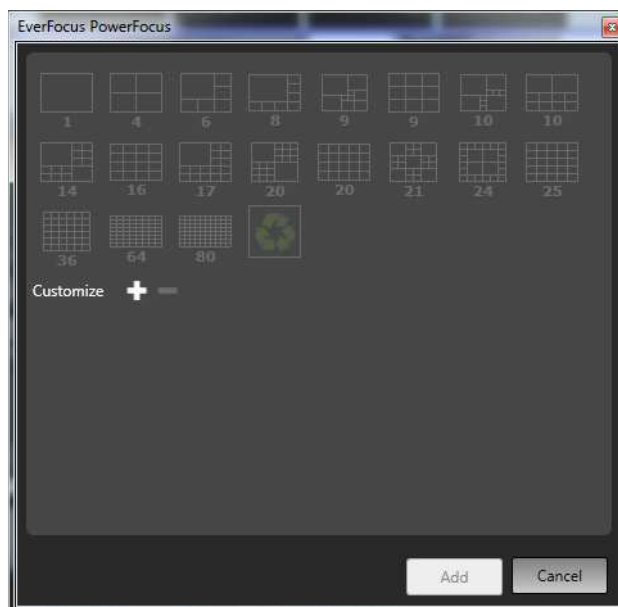
Monitor frame layout frame

Tip: All the frames on display here can be used as display source for the 'Sequential Monitor Frame'.

1.4.1 Add/Remove Monitor Frame



Monitor frames can be added or removed to suit user's needs. This can be done in Add Monitor Frame Window as shown below:



Add monitor frame window

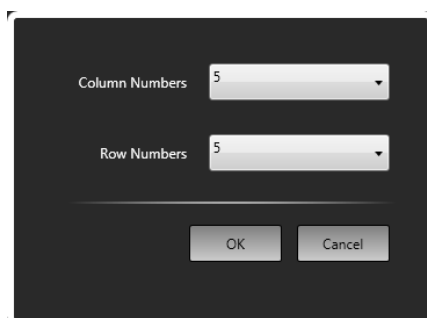
Tip: If the above monitor frame does not match your requirements, you can customize your own monitor frame layout.

1.4.2 Customized Monitor Frame

There are many circumstances that require customized monitor frames, for example, when the screen has a display ratio of 16:9/16:10

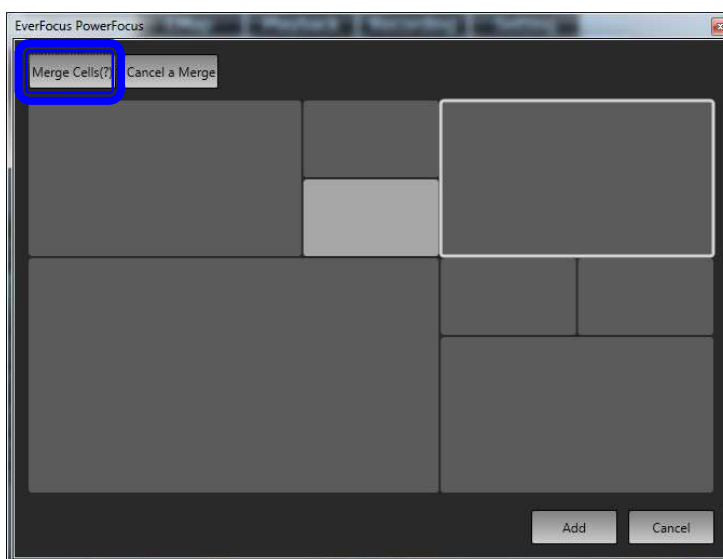
or some other special monitoring equipment.

Please click 'Add' icon in the 'Add Monitor Frame' window, then, in the new pop up window select the number of new rows and columns of customizable monitor frames that you want to add. Click 'OK' to commence customizing your monitor frame layout.



Column and row number selection

In the customized monitor frame, you can use 'Merge Cells' or 'Cancel a Merge' to allocate monitor frame as shown below.



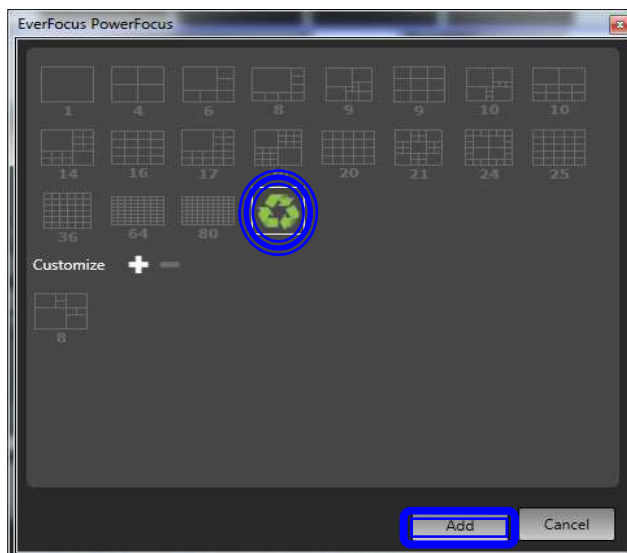
Customized monitor frame

Merge Cells: Select the monitor frames that you want to merge, and click 'Merge Cells' button.

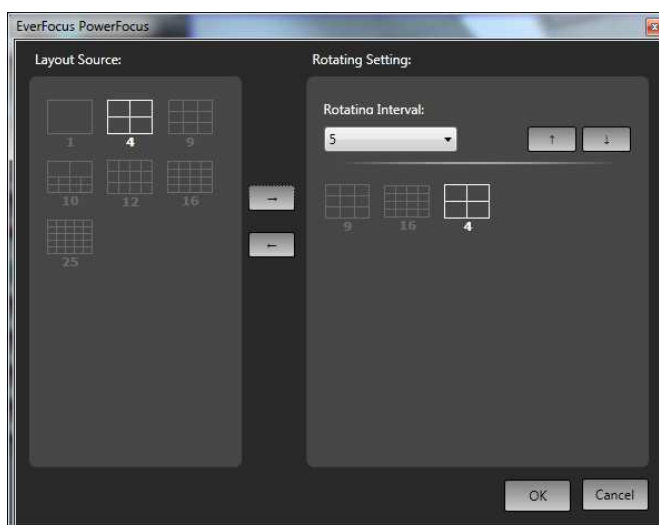
Cancel a Merge: Select the monitor frames that you want to undo merge, and click 'Cancel a Merge' button.

1.4.3 Sequential Monitor Frame

Inside the 'Add Monitor Frame' window, select the sequential icon and click 'Add' button. A setup window will appear as shown below:



Add sequential monitor frame



Sequential monitor frame setup

Add Sequential Monitor Frame

In the image above, the left frame (Source) represents the monitor frames that was previously setup, all these frames can become the source streaming of the sequential monitor frame. Double click on the monitor frame icon to add it to the sequential monitor frame setup on the right.

Tip: The same monitor frame can be added multiple times into the 'Sequential Monitor Frame'.

Sequential Interval

This sets the number of seconds to stay on each monitor frame.

Sequential Order

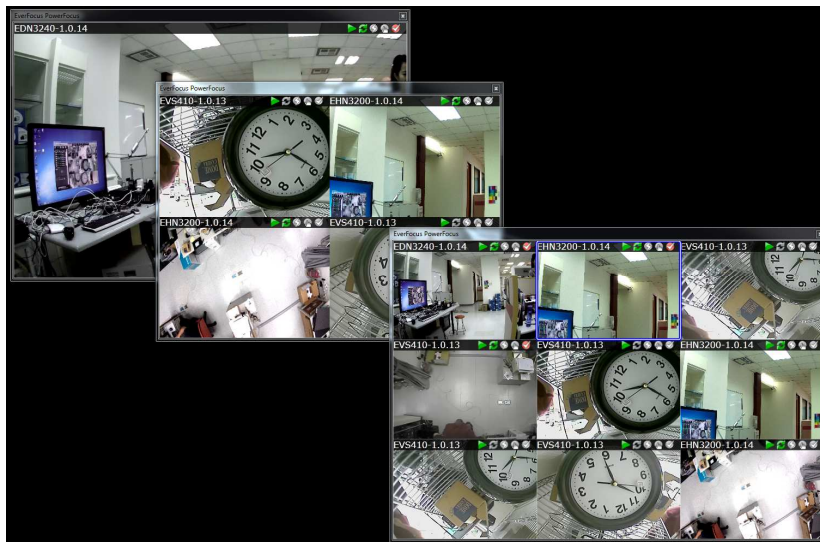
Adjust the order of displayed video streaming in the 'Sequential Monitor Frame'.

Note: Sequential monitor frame does not support mouse clicks or drag-and-drop. I.e. you cannot drag-and-drop the camera streaming to sequential monitor frame; you will have to set it up from 'Source Monitor Frame'.

1.4.4 Multi-Windows Support

CMS supports multiple windows, with no restrictions on the number that can be opened. Its operation is intuitive; inside the monitor allocation panel, double click on the any monitor frame, and the frame will become independent. Drag the monitor frame to any window to expand the frame.

To cancel, click on the close window button.



Multi-windows support

1.5 Pan-Tilt-Zoom Control (PTZ)

If your camera supports PTZ, then you can use this function to sequential the camera horizontal/vertical. If the selected camera does not support PTZ, this control panel becomes inoperable.



PTZ Control

1.6 Map Navigator

This frame allows user to browse the physically location of the IP Camera. The image below is a full map view. The green selector represents displayed map area, as shown below:



Map Navigator

1.6.1 Map Navigator Zoom

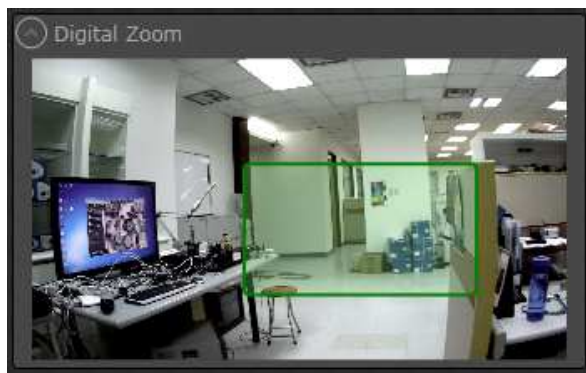
Choose a map using the map selector and the map will appear in map navigator. Green selector represents the displayed area within the map. Move the mouse cursor to 'Map Navigator' and use the mouse scroll wheel to enlarge or shrink map.

1.6.2 Map Navigator Move

Choose a map, using the map selector; and the map will appear in map navigator. Green selector represents the displayed area within the map. Move the mouse cursor to 'Map Navigator' and drag the green selector to move map.

1.7 Digital Zoom Control

Digital emulation is used to zoom and move IP Camera video streaming. Any monitor frame can be individually configured with Digital Zoom, allowing you to achieve multi-views with only a single high definition IP camera. Digital Zoom control frame is as shown below:



Digital Zoom Control

1.7.1 Digital Zoom

Select any monitor frame and its video streaming will also appear in the Digital Zoom Control panel. The green selector represents the field of display. Move the mouse cursor to control panel, and use the mouse scroll wheel to zoom-in/zoom-out with no magnification limit.

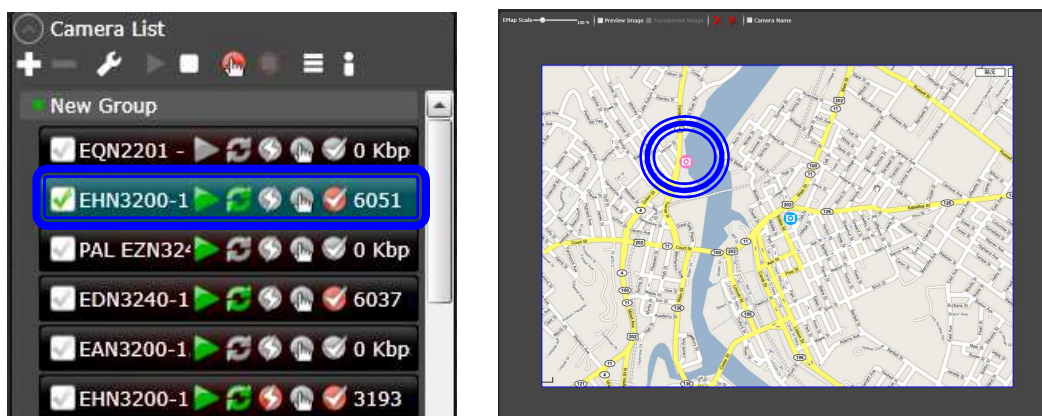
1.7.2 Move

Select any monitor frame and its video streaming will also appear in the Digital Zoom Control panel. The green selector represents the field of display. Move the mouse cursor to control panel, and use the mouse to drag and move the field of display.

1.8 Monitor Frame Setup

1.8.1 Add Video Streaming

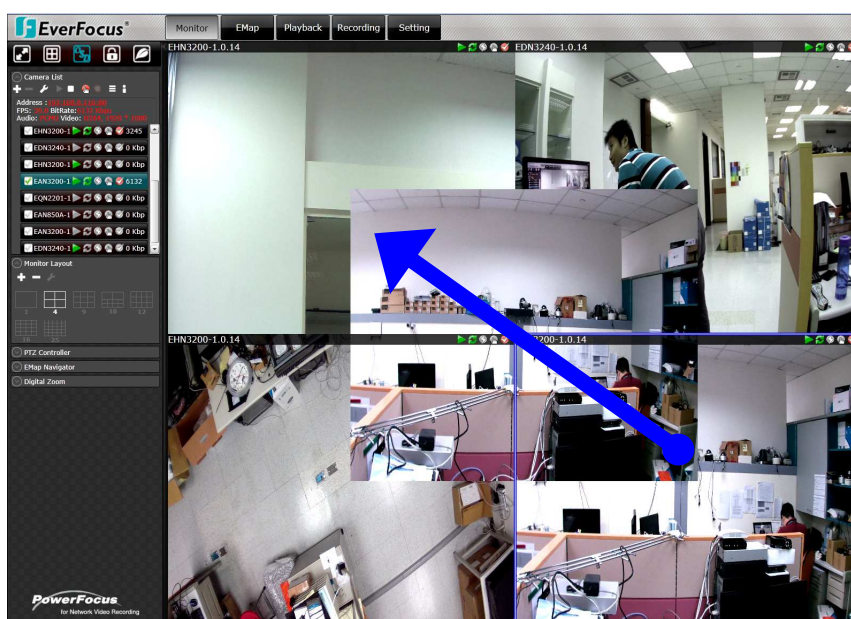
There are 2 methods to add IP camera video streaming to the monitor frame. The first method is to drag any camera status/preview row to the monitor frame. The second method is to drag the camera icon from the map navigator to the monitor frame.



Tip: You can drag the same camera streaming to different monitor frame, and use Digital Zoom Control to achieve multi-view with a single camera.

1.8.2 Switch Streaming

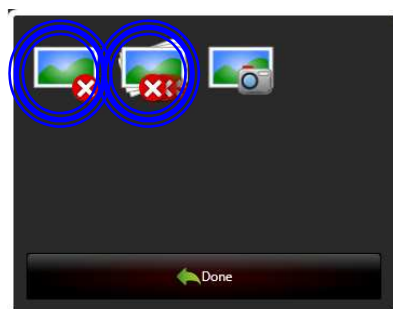
Use your mouse to drag and drop two different monitor frames to switch video streaming.





1.8.3 Remove Video Streaming

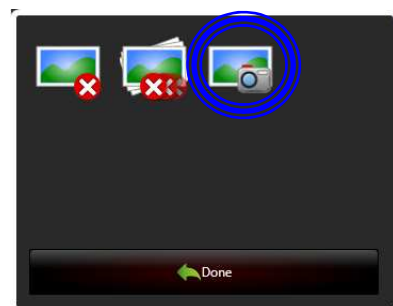
Click the right mouse button on a monitor frame, and a window will appear. Choose 'Remove single monitor frame' or 'Remove all monitor frame', as shown below:



Right mouse click on monitor frame

1.8.4 Capture Video Streaming

Click the right mouse button on a monitor frame, select 'Capture Video Streaming' icon to get snapshot of camera. If you have auto-save configured, the video streaming will be automatically saved, otherwise a 'Save-As' pop-up window will appear. Please refer to *Settings* if you want to configure auto-save file option.



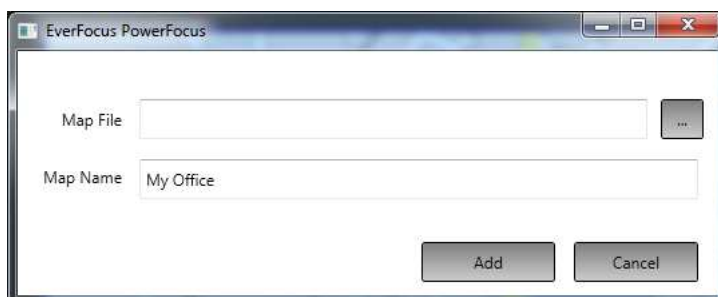
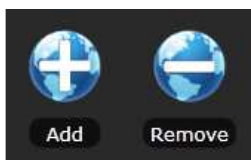
2 Map

Maps can provide a visual physical overview of your IP Camera location, making it easy to quickly select individual cameras and monitor video streaming.

2.1 Create/Remove map

2.1.1 Add Map

Click 'Add' button. Select the map file within 'Add Map' window, and enter a descriptive name.



Add map

2.1.2 Remove Map

Select the map that you want to remove, and click the 'Remove' button.

2.2 Map Control

2.2.1 Map Zoom

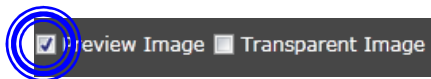
To zoom-in/zoom out, use your mouse scroll wheel on the map. You can also use scale tool bar or the 'Map Navigator'.



2.2.2 Move Map

Map can be moved by dragging it with your mouse cursor.

2.2.3 Preview Image



Click the camera icon once to preview video streaming.
Double-clicking the icon will display camera's monitor frame.

2.2.4 Image Transparent



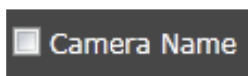
If the mouse cursor is not on top of the camera icon, the video streaming will become semi-transparent to allow use to control the map. Move the mouse cursor back on top of the video streaming will disable the effect.

2.2.5 Remove Camera



Allow the user to remove single/all camera icons.

2.2.6 Camera Name



Determine if the camera name will be displayed on the map.

2.3 Map Navigator

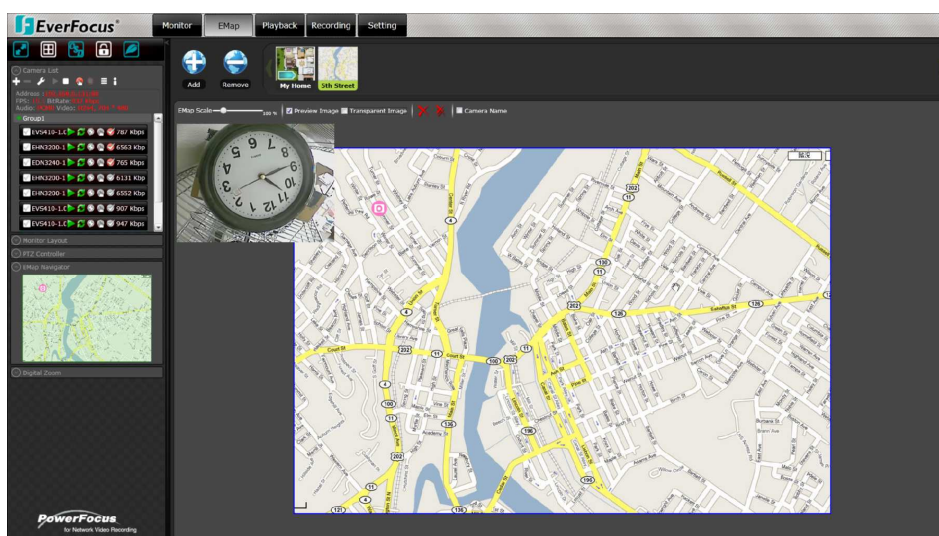
'Map Navigator' provides a full view of the map. Green selector represents the displayed area within the map. Move the mouse cursor to 'Map Navigator' and use the mouse scroll wheel to enlarge or shrink map. Drag the green selector to move map.



Map Navigator

2.4 Interact With Camera List and Map Navigator

The cameras on the camera list, 'Map Navigator' and the map will all respond simultaneously to user selection. For example, when you want to search for a particular camera, you can select it directly according to its location on the 'Map Navigator'.



3 Playback

3.1 Retrieve Archive

If you want to access archive of previous video recordings, you will need to select the date and the camera. Then the camera's video streaming data will be presented in the upper right video time frame bar.

The screenshot shows a user interface for selecting a date and a camera. The 'Select Date' section features a calendar for August 2011. The 'Select Camera' section lists several cameras with radio buttons for selection.

August, 2011						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

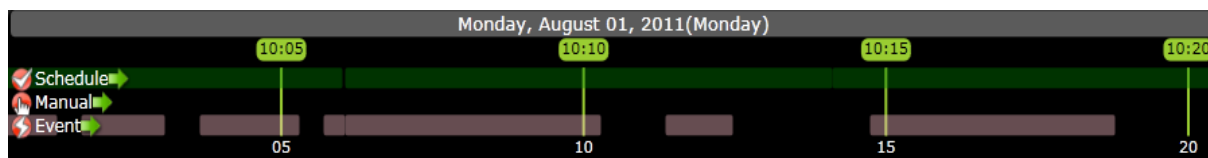
Select Camera

- ☒ EVS410-1.0.13
- ☐ EHN3200-1.0.14
- ☐ EDN3240-1.0.14
- ☐ AREA 2 - EHN3200
- ☐ EHN3200-1.0.14
- ☐ EVS410-1.0.13
- ☐ EVS410-1.0.13
- ☐ EVS410-1.0.13
- ☐ EPN3100-1.0.5
- ☐ EAN3200-1.0.14

Tip: Selecting the correct date may help you locate your recordings faster.

3.2 Video Timeline Setup

Video playback takes on the concept of time scheme. First you have to decide on the date and the camera. The camera's recordings will be listed in the upper right hand 'Playback Toolbar'. The playback toolbar has timeline as the horizontal axis with recordings shown on top of the toolbar. The toolbar has timeline markings (between 2 hours to 1 minute intervals) as well as being subdivided into three rows indicating: 'Scheduled', 'Manual' and 'Event'.

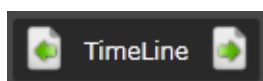


Video recording time bar

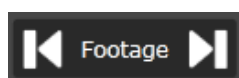
Timeline Scale: Use the mouse scroll wheel on the playback toolbar can expand/shrink the playback timeline. This can also be done with 'TimeLine Scale' toolbar above.



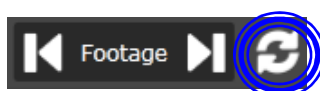
Move Timeline: Use the mouse cursor to drag playback toolbar to adjust timeline. This can also be done with 'TimeLine' toolbar above to shift timeline.



Playback Previous/Next Clip: Use the 'Image Section' toolbar to change the current video playback



Refresh Playback Video: If camera is currently under recording, the 'Refresh' button on the toolbar can be used to update latest video data on the playback toolbar.



Tip: You can click on the 'Refresh' button immediately after video streaming recording to see the latest playback clip.

Tip: The 'Playback Toolbar Timeline' can adjust the playback time scale to the second, playback can commence with a click of the mouse button.

3.3 Video Player

Select the time on the playback video clip, the 'Video Player' below the playback toolbar will start playing the video clip automatically.



Video player

3.3.1 Playback Time Scroll Bar

You can drag the scroll bar at the bottom of the video player at any time to quickly browse the video clip. When dragging the scroll bar, a green line will indicate the current selected time within the clip.



3.3.2 Power-Saving Mode

All video players support 'Power-Saving Mode'. In this mode, loading of the computer's processing efficiency will substantially reduced.



Tip: When you are simultaneously playing back multiple video clips, 'Power-Saving Mode' can increase efficiency.

3.3.3 Playback Speed

The fastest playback speed is 128x to help you reach the desired clip location faster; for example at 64x browsing, an one hour clip will only take less than 1 minute. Playback can also be slowed down to 1/64x speed, allowing clear distinctions between critical frames.



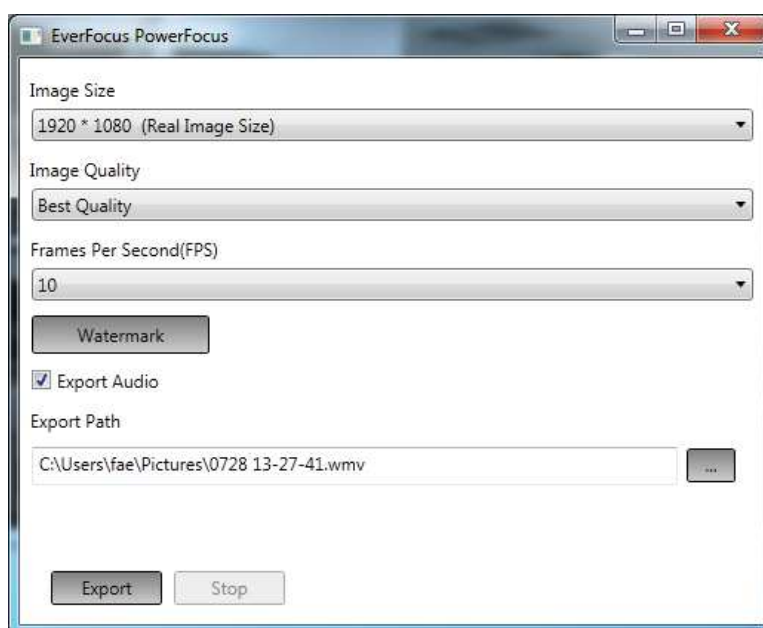
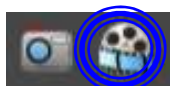
3.3.4 Clip Skipping

This function can skip 5 and 30 seconds before or after the current video frame time. As a result you can quickly locate the desired video frame, or a simple repeat playback.



3.4 Export Video Clip

To ensure the best compatibility of player, all exported video clips are WMV (Windows Media Video) format.



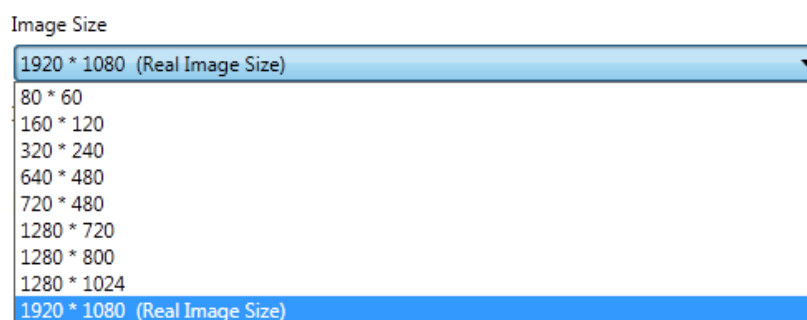
3.4.1 Video Clip Export Length

Adjust the length between 2 black keys (starting point/end point) on the video player time scroll bar to set the length of exported clip.



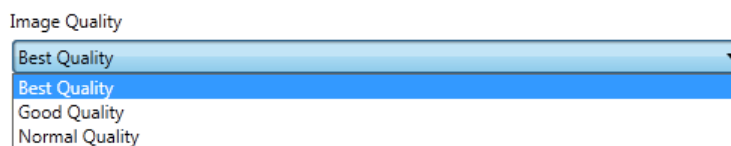
3.4.2 Video Clip Export Resolution

The minimum export clip resolution is 80*60, and the maximum is 1920*1080. The default resolution is recommended as it is the true resolution of the camera. If the selected export resolution is larger than original source, the system will first digitally magnify the video clip, and it takes more computing resources and time to compress the clip in the process.



3.4.3 Video Clips Export Quality

There are three levels of video clip export quality, including best (larger export file size), superior and normal quality (smaller export file size).



Note: The higher quality will take more computing time during exporting.

3.4.4 Video Clip Export Frame Rate

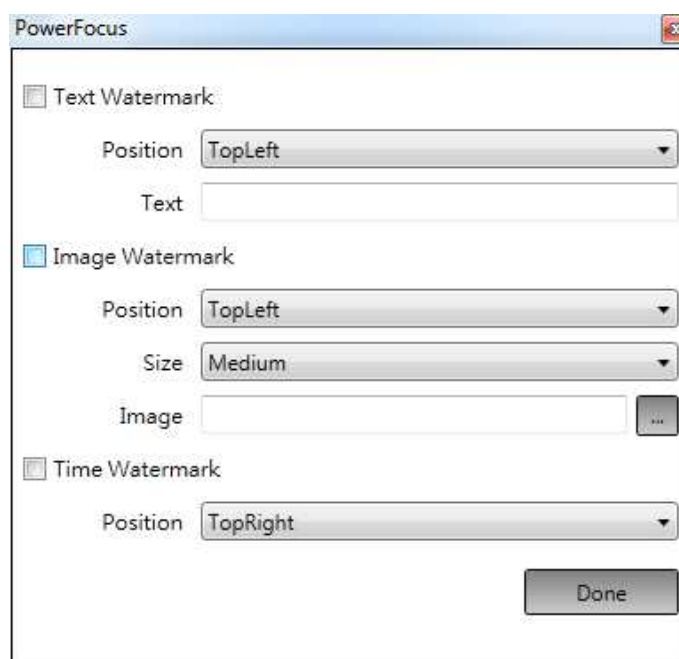
Selected frame rate of the clip being exported. If the frame rate is larger than the camera streaming frame rate, then video compression of the exported frame rate will be camera streaming actual frame rate. The default value is recommended.

FPS

10
1
3
5
8
10
15
20
25
30

3.4.5 Watermark

Three types of watermarks are provided, including Text, Image and Time watermarks. Multiple selections are possible. The exported video clip will display the selected watermark(s).



The image shows a software window titled "PowerFocus" with a close button in the top right corner. Inside the window, there are three sections for watermark settings:

- Text Watermark:** A checkbox is checked. Below it, the "Position" dropdown menu is set to "TopLeft", and there is an empty "Text" input field.
- Image Watermark:** A checkbox is checked. Below it, the "Position" dropdown menu is set to "TopLeft", the "Size" dropdown menu is set to "Medium", and there is an "Image" input field with a browse button (represented by a folder icon) to its right.
- Time Watermark:** A checkbox is checked. Below it, the "Position" dropdown menu is set to "TopRight".

A "Done" button is located at the bottom right of the window.

Watermark window

3.4.6 Audio Export

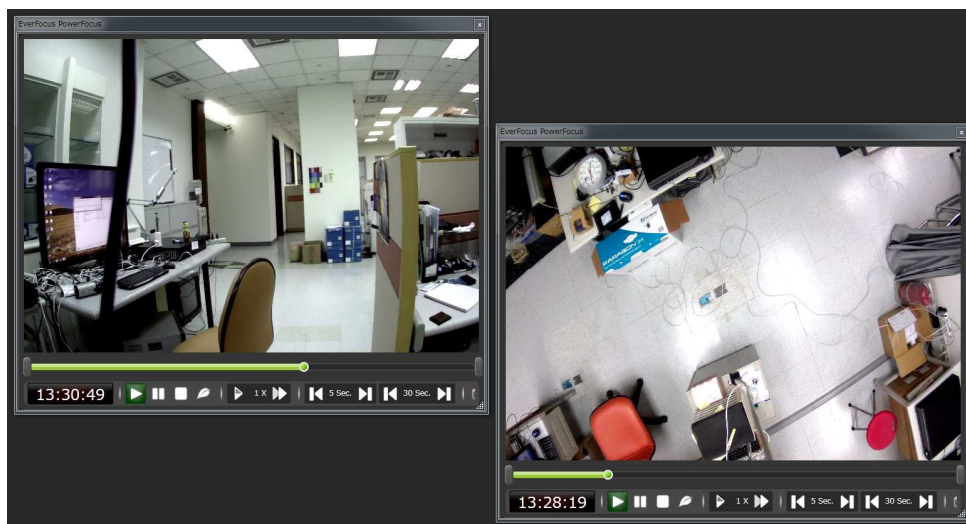
Select to export audio accompanying video.

3.4.7 Export File Path

Select the storage destination to place exported video clips.

3.5 Multiple Playbacks

The CMS supports multiple video clip playbacks without limitation of the number of windows. This allows you to browse multiple image clips at once. Double clicking the desired playback instance on the video time scroll bar will instantly pop out a new 'Video Player' window.



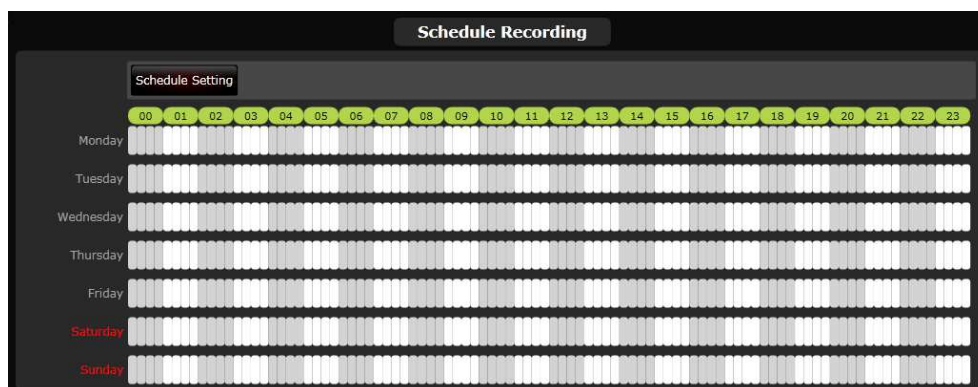
Tip: During multiple playbacks, enabling power saving mode can help reduce process loading on the computer CPU.

4 Recording

4.1 Scheduled Recording

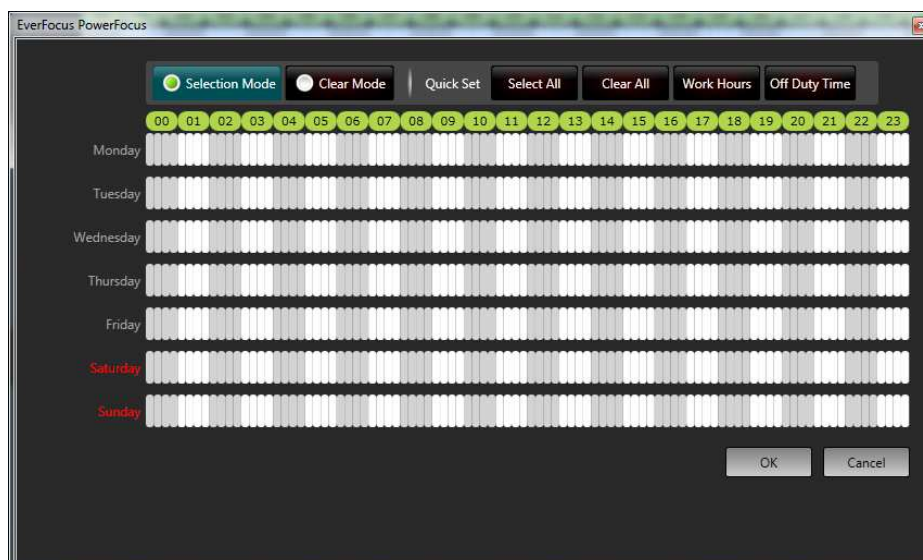
Schedule recording allows the user to preset recording schedule on selected IP camera. The recording schedule table can be easily configured by click and dragging the mouse cursor. The main features of the schedule editor are:

- User friendly graphic interface
- Predefined templates to simplify configuration process
- All IP cameras have individual recording scheduler
- Weekly based auto-recording



Schedule Recording

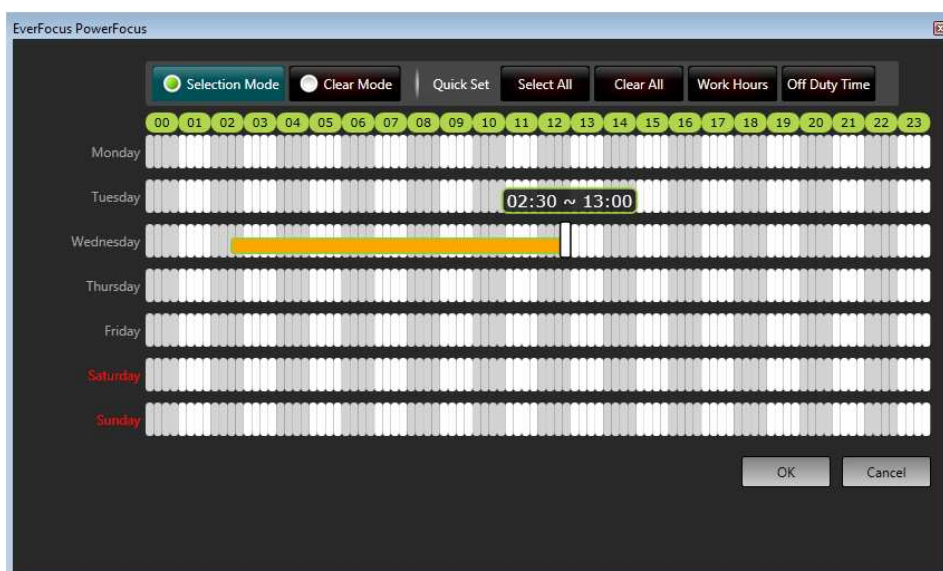
To use 'Schedule Recording' function, there has to be at least one camera present in the camera list on monitor page. In the main function bar, click 'Recording' to enter the recording page. Then choose any IP camera from left list box. Click 'Schedule Setting' on the scheduled recording section on the right work space will bring up 'Schedule Setting' window as shown below:



Schedule setup page

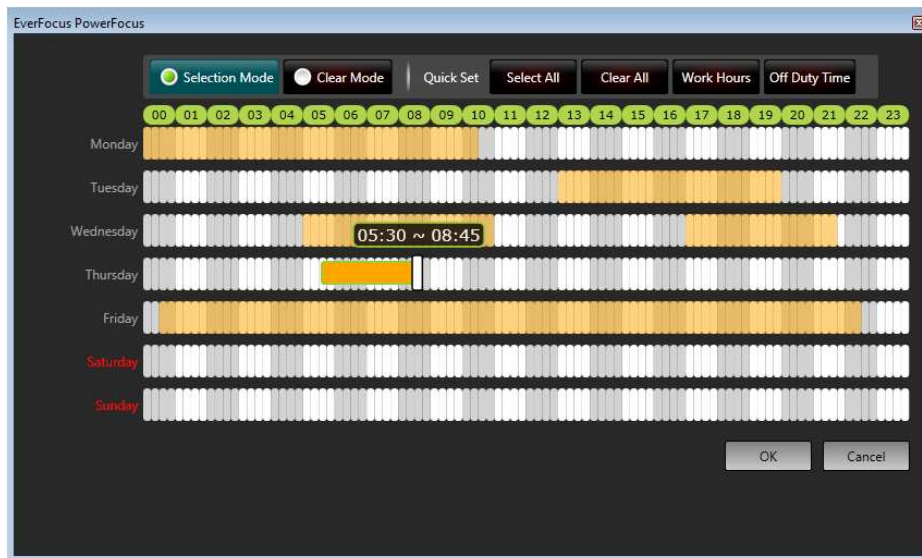
Schedule selector:

Record schedule editor is organized in units of 7 days, from Monday to Sunday. Each day is separated into 96 time slots, with each time slot representing 15 minutes. Left click and drag the mouse cursor will set the recording period, selected time will also be displayed on top as shown below:



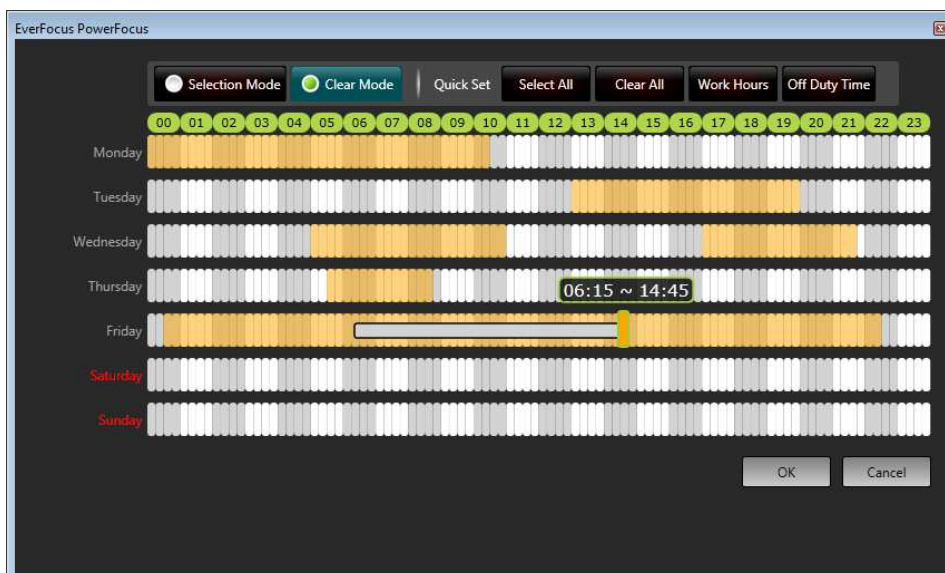
4.1.1 Select Mode

When the time frame has been selected with mouse cursor as part of scheduled recording, the corresponding time slot box will be filled with orange shading. While white/grey time slots will represent uncommitted time frame as shown below:



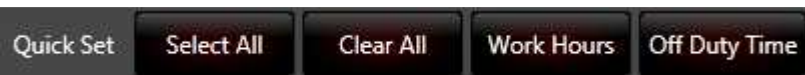
4.1.2 Clear Mode

The time frame that has been selected with mouse cursor will be reverted to unscheduled if the same time period was previously selected for scheduled recording (orange shading). The set up window is shown as below:



4.1.3 Predefined Templates

There are 4 shortcut buttons to simplify the record scheduling process.



Select All: Select every time slot between Monday to Sunday as part of recording schedule.

Clear All: Clear every time slot between Monday to Sunday from recording schedule.

Work Hours: Select time slots from 8:00 – 17:00 between Monday and Friday to be scheduled for recording.

Off Duty Time: Select all time slots that are not working hours to be scheduled for recording.

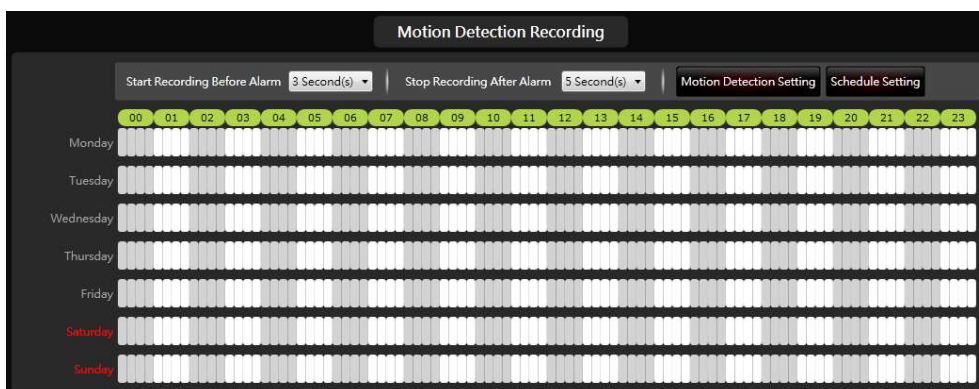
Tip: Multiple cameras can simultaneously be selected for scheduled recording setup; it is similar to schedule setup within motion detection recording.

4.2 Motion Detection Recording

Motion detection, as part of intelligent surveillance, is used to detect if an object within a video image has been moved. If an object has removed, then an alarm will be triggered or video recording will be activated.

4.2.1 Main Features

- Detection zone can be resized and moved with no limitation on the number of detection zones.
- Graphical quantization of object movement.
- Every detection zone has independent triggering conditions that can be set individually
- Support 'Time Recovery' recording mechanism
- Support scheduled recording



Motion Detection Recording

Note: In the above image, configuration is possible only when a camera in the left camera list is selected.

4.2.2 Recording Before Alarm Trigger

As part of time recovery mechanism, video recording can activate before the trigger event. Preset values are 0, 1, 3, 5 and 10 seconds.



4.2.3 Stop Recording After Alarm Trigger

Stop recording after alarm is triggered. Current values are 5, 10, 20, 30, 40, 50 and 60 seconds. This feature can substantially reduce the required storage space for recorded video clips.

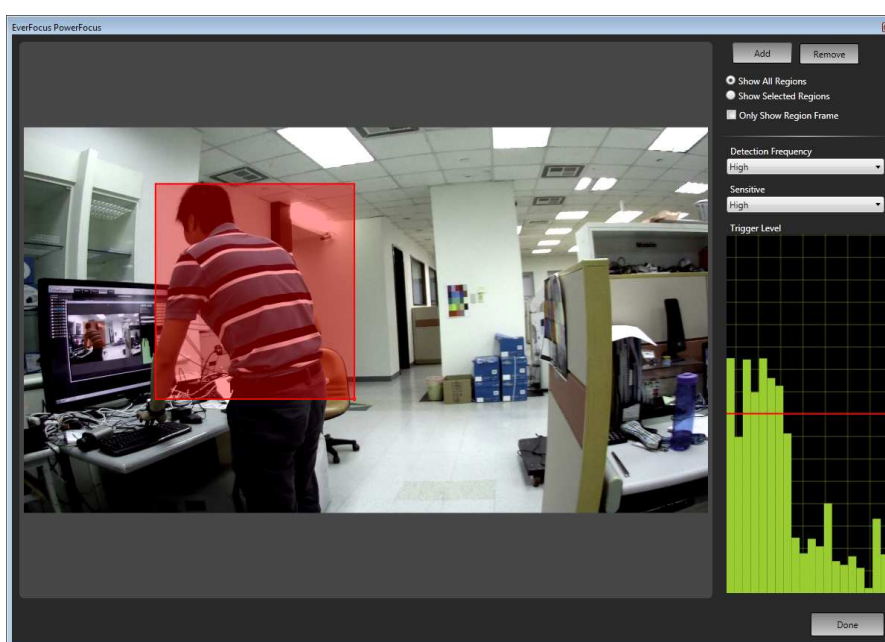


4.2.4 Scheduled Setup

This is scheduling recording specifically for motion detection, for example, you might want to enable motion detection function after office hours. Refer to *Scheduled Recording* for scheduling setup.

4.2.5 Motion Detection Setup

This setup menu is intended for configuring camera video streaming detection zone. The configuration image is as shown below:



Motion detection setup

Add Detection Zone

Click 'Add' button to add a new detection zone. There is no restriction on the number of detection zones.

Warning: When the IP camera's resolution has been changed, all associated detection zones will be removed.

Resize and Move

On the bottom right hand side of the white detection zone frame, when the mouse cursor becomes a bidirectional arrow, left click and drag the mouse cursor to resize detection zone. Within the red detection zone frame, left click and drag the mouse cursor to move detection zone.

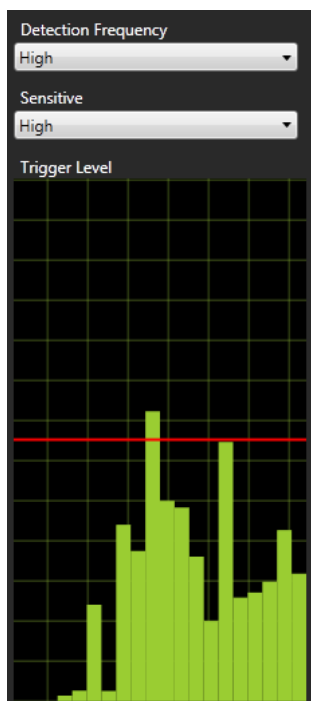
Detection Condition Setup

Every detection zone individually contains the following 3 detection conditions:

Detection Frequency: Configures the detection frequency of the detection zone. Configurable values are high, normal and low.

Sensitive: Configures the sensitivity to image change within the detection zone. Configurable values are high, normal and low.

Trigger Level: On the bar, use the mouse cursor to move the trigger value (red line). When movement vector values (green bars) exceed the trigger value, motion alarm will be triggered.



Remove Detection Zone

Select any detection zone. When the detection zone selected, it turns red. Click 'Remove' to delete detection zone.

Tip: When finished editing trigger conditions, click 'Finish' to activate motion detection. If there is no defined detection zone, then motion detection will not be activated.

5 Setup

5.1 General Setup

Click 'Setting' on the main tool bar to enter setup page. Click 'General' on the left tool bar as shown below:



General setup

5.1.1 Take Picture

This is used to setup the storage location to place auto-saved image file when the user captures image in monitor frame. For this function to be active, 'Auto Save' check box must be selected. The captured image will be exported in bitmap (BMP) format and stored at user designated folder with date and time used as image file name. If this check box is not selected, then whenever the user captures an image, a 'save-as' window will pop up, allowing user to determine the storage location and the file name of the captured image.

5.1.2 Computer - Screen Saver

Configures screen saver activity. For example, you might prefer the system not entering screen saver mode when the monitoring software is running.

5.1.3 Computer - Screen Shutdown

This configures computer monitor activation status. For example, you might prefer the system not shutting down the monitor when the monitoring software is running.

5.1.4 Computer - Sleep Mode

This configures the computer sleep mode status. For example, you might prefer the system not entering sleep mode when the monitoring software is running.

5.1.5 Language

Set up the monitoring software user interface language.

5.1.6 Change Password

Change the password used to activate this monitoring software. Click 'Change Password' and enter the old password, along with a new password in the new password and confirm new password field. Click 'OK' to apply change, and 'Cancel' to abandon change.

5.1.7 User Management

This sets the monitoring software user's privilege level. There are 3 different privilege levels and they are:

Administrator: Access to all functionality, including user account management.

PowerUser: Access to all functionality, but does not include user account management.

Viewer: Access rights to view camera video streaming only.

Tip: 'Lock' can be used to quickly change active user account.

Tip: The preset account name is 'admin' and the corresponding password is 'admin'.

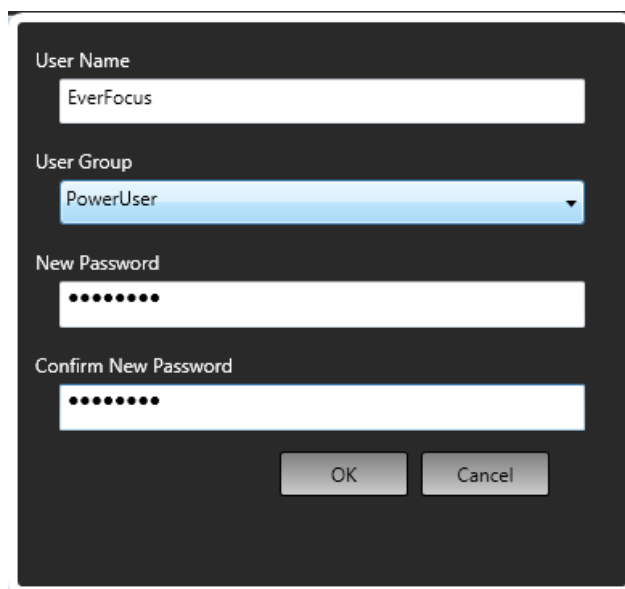
User account setup window is as shown below:



User Management

User List: List of all available users.

Add User: Click 'Add', and a setup window will appear as shown below.



Add new user

Remove user: Click 'Remove' to remove user account.

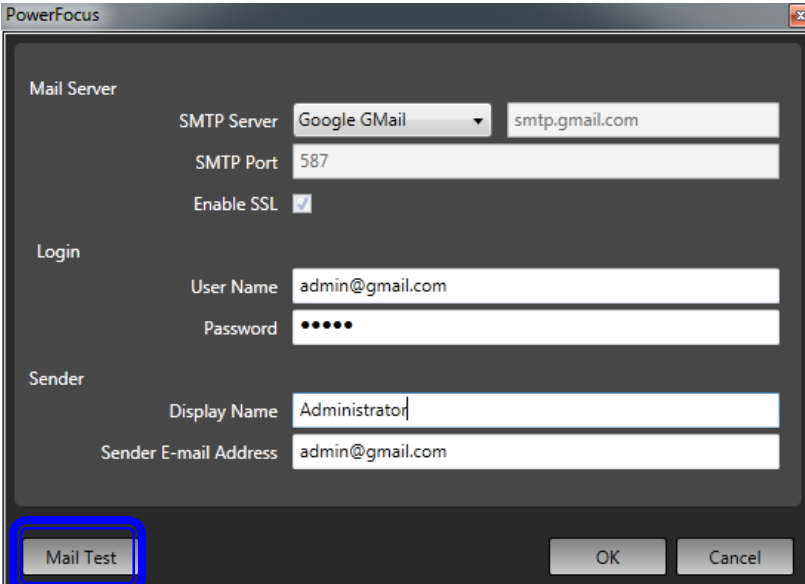
Change User Group: Change the privilege level of the selected user account.

Reset Password: Change the password of the selected account, if the user forgets his/her account password, you can reset it.

Freeze User Account: When the selected user account is frozen, it will not be able to log into the monitoring software.

Note: 'admin' account is the default system administrator account, apart from changing its password; this account cannot be removed, changed to another group or frozen.

5.1.8 SMTP



SMTP setup

When a monitoring event triggers and requires e-mail notification, the SMTP has to be configured in order for the function to be active.

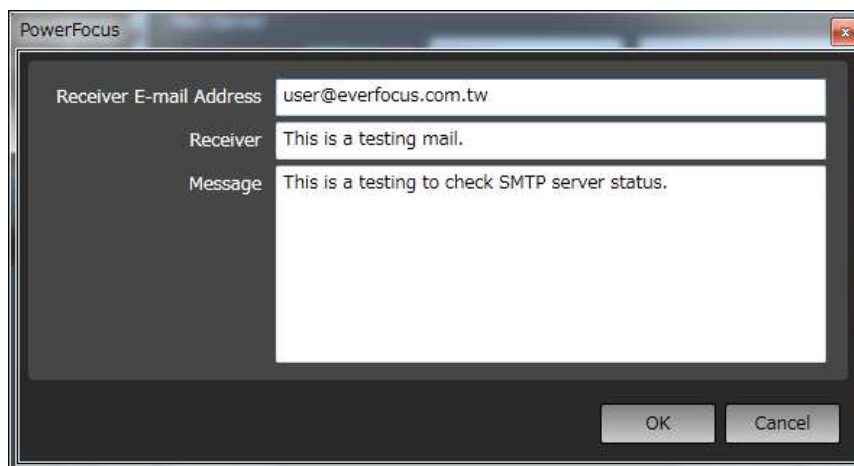
Mail Server: Settings for SMTP servers; there are preset for three most common SMTP servers such as, Hotmail/MSN/Live、Yahoo! and Gmail. SMTP can also be set manually.

Login: Enter the user name and password for your mailbox. The user name is usually your e-mail address.

Sender: Enter the name and e-mail address to display.

Click 'Test' button, then a test send e-mail window will appear as

shown below to see if the settings for SMTP server are correct. Enter recipient's e-mail account and click 'yes' to proceed with test.

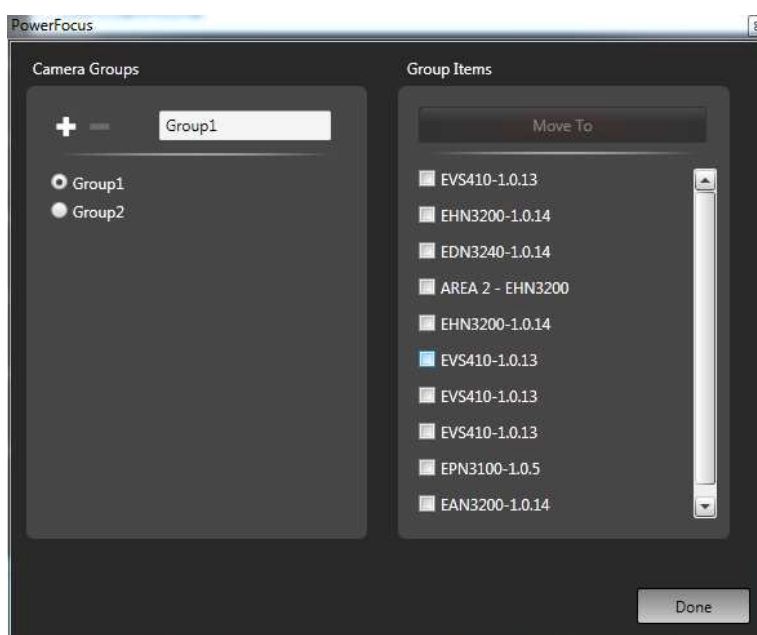


Test E-Mail

Note: You must stay connected to the internet during this test.

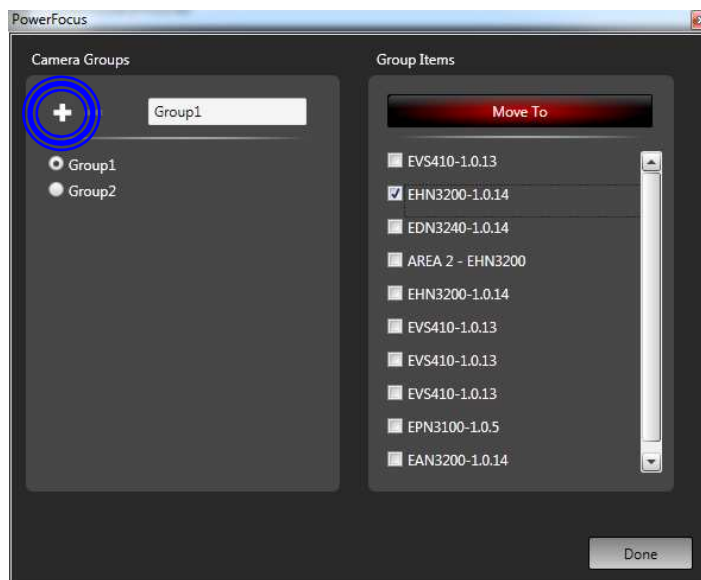
5.1.9 Camera Groups

When there are a large number of IP cameras, they can be allocated into groups for management. Left field of the Camera Group window contains camera groups; the right field contains cameras allocated to the group.



Camera groups setup

Add New Camera Group: Click 'Add', and a new group with a preset name will appear as shown below.

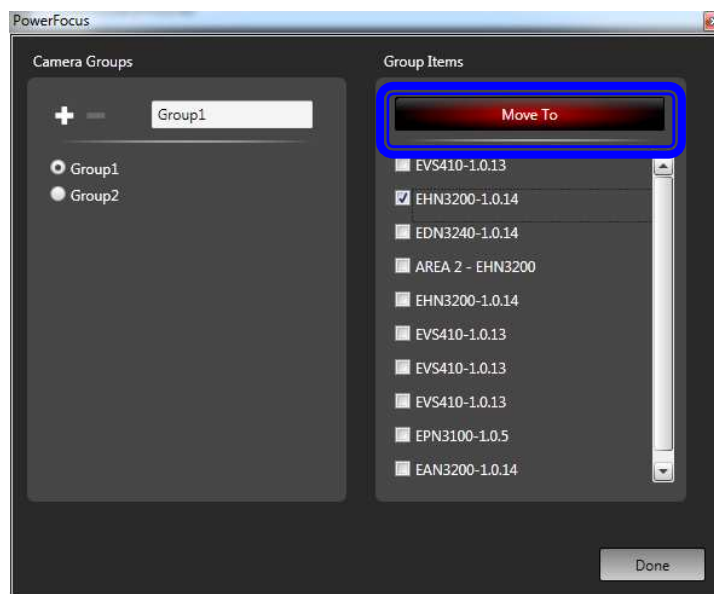


Add new camera group

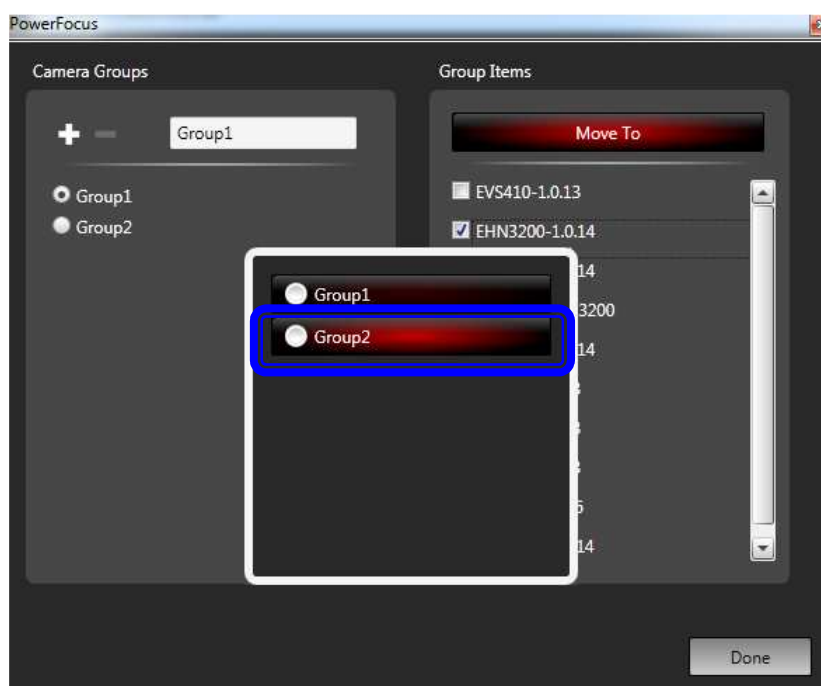
Remove Camera Group: Select the camera group that you would like to remove, and click 'Remove'.

Note: If the camera group has more than one camera associated with it, then it cannot be removed.

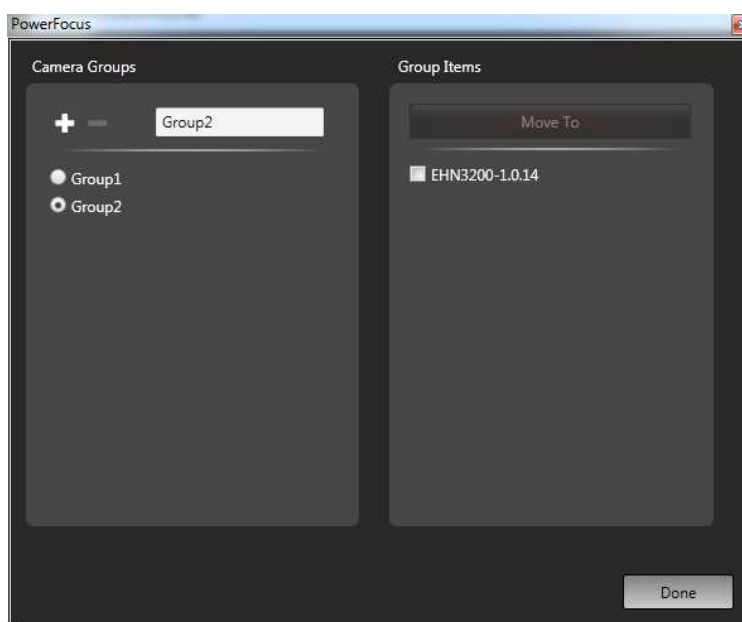
Move Selection to Another Group: Click on the cameras that you want to regroup, and click on 'Move to'. Select the destination group in the new pop up window.



Select camera items



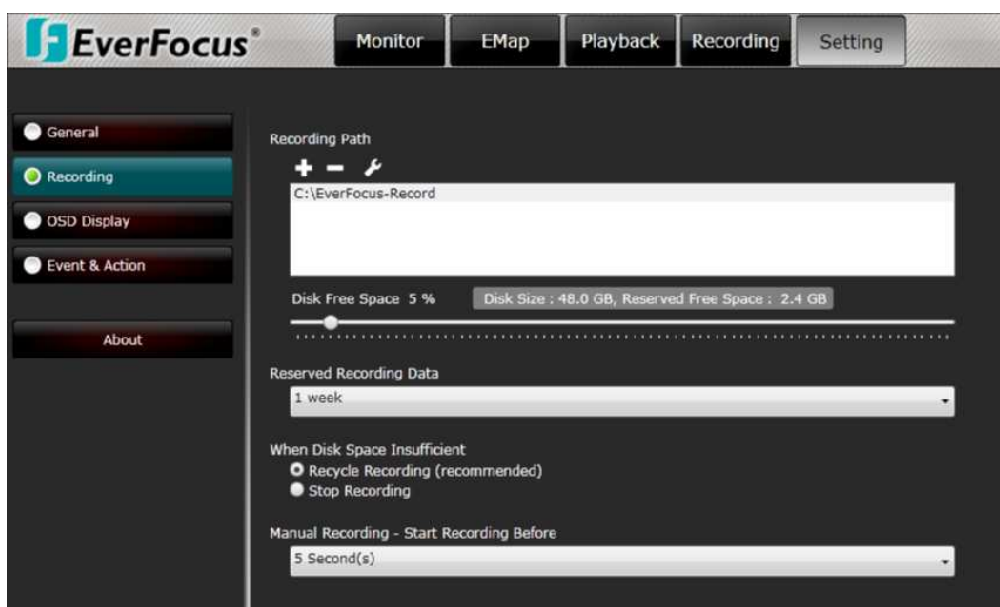
Select camera group



Move camera to new group

5.2 Recording Setup

Click 'Setting' on the main tool bar to enter setup page. Click 'Recording' on the left toolbar and the right work space will display recording setup as shown below:



Recording Setup

5.2.1 Recording Path

Configure recording path to store IP camera's recorded video clips.

5.2.2 Reserve Available Hard Disk Storage Space

Specify storage space reserved for other Windows application, while the rest is used for video clips storage. The more hard disk space that you reserve, the less storage space there is for storing video clips. When the select button is dragged further towards right, then more hard disk space is allocated for other applications, and less is allocated to store recorded video clips.

Tip: If your record video storage folder is located in the same driver as your operating system, then please allocate at least 2GB of free hard disk space.

5.2.3 Preserve Recorded Video

Set the preservation time frame for the recorded video clips. When the preservation time has expired, then video clips in the folder will be deleted.

5.2.4 Insufficient Hard Disk Space

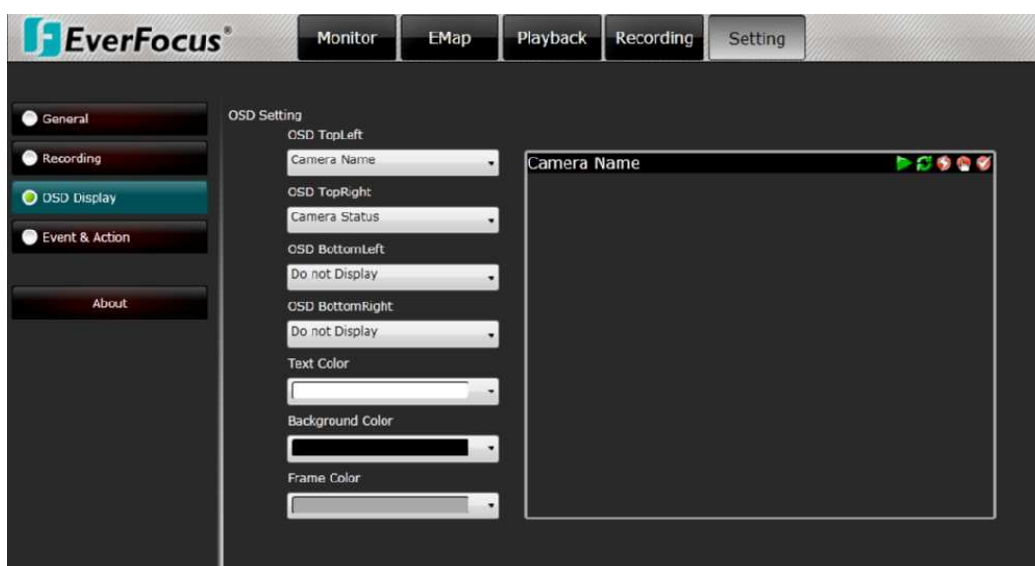
While 'Recycle Recording (recommended)' option is selected, PowerFocus[®] will replace the oldest video clip with the latest recording video clip (first in first out policy) when the record video clip folder has reached the allocated storage capacity. It is the recommended setting to ensure video clips are preserved in a more complete manner. If the 'Stop Recording' option is selected, and the record video clip folder has reached the allocated storage capacity, the video recording service will be stopped without any video clips stored.

Tip: If there is no special requirement, please select 'Recycle Recording (recommended)' option

Manual Recording – Start Recording Before: Configures the number of seconds of video clip being emotively recorded when the user activates manual video recording.

5.3 Screen Setup

Click 'Setting' on main toolbar to enter setup page. Click 'Screen' on the left toolbar and the right work space will display image setup as shown below:



Screen Setup

5.3.1 OSD Setting

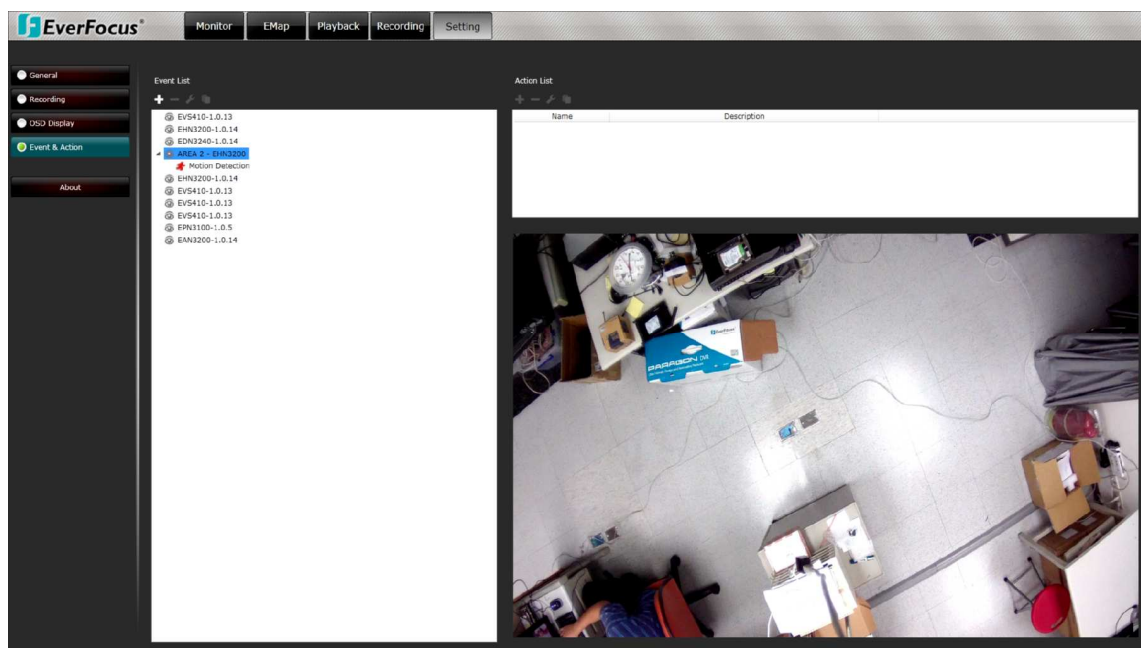
There are 7 settings available in the left hand side of screen setup work space, on the right hand side there is a preview screen. User can adjust the display content for assisting the management of monitoring.

The first 4 settings are used for setting message content displayed in the corner of the monitor frame. Text color and background color are used to adjust the color in the preview screen, and the line color adjusts the monitor frame color.

5.4 Events and Actions

When the camera has detected motion or other abnormal events, meanwhile to execute corresponding actions are required. For example, send an e-mail containing a screenshot of the actual event.

To enter this setup menu, click 'Setting' on the main toolbar to enter setup page. Click 'Event & Action' on the left toolbar as shown below:





Event & Action Setup

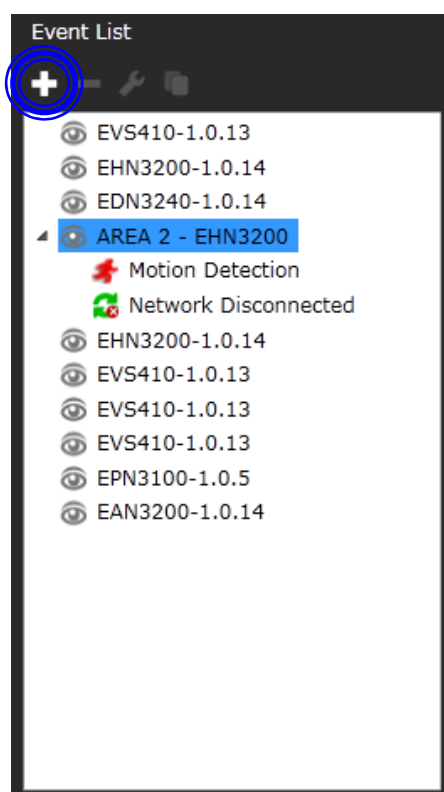
For an example, if you want to define new events and actions setting:

- A. Select the camera in the events list and add event, e.g. motion detected.
- B. Select event, and in the actions list add new action, e.g. send e-mail.

Tip: Setup order is (1)select camera → (2)add event → (3)select event → (4)add action

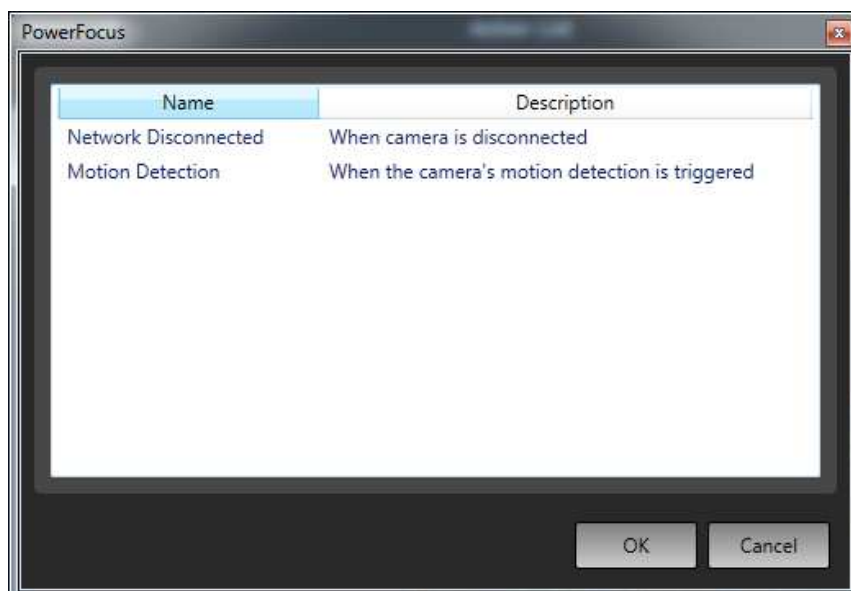
5.4.1 Event List

Every  icon represents a camera, and followed by the name given to the camera. If the camera already has a predefined event, then there will be a triangle mark in the front of the  icon. Clicking the triangle will expand/contract the event list.



Event list

Add Event: Select the camera, click 'Add' and select the new events that you would like to add in the pop up window.

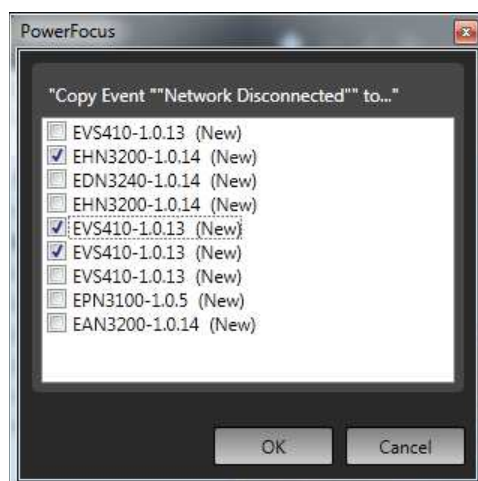


Event list window

Note: The event list window will display events that still can be added to the list. Events that have already been added will not be displayed.

Remove Event: Select the event in events list, and click 'Remove'.

Copy Event: Select events in the list and click 'Copy', a pop out window 'Copy event <> to...' will appear as shown below. Multiple cameras can be selected, and clicking 'OK' will copy the event to the checked cameras.



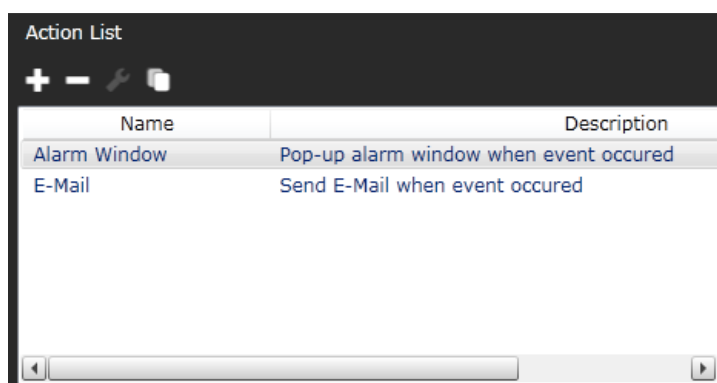
Copy event window

Tip: Located after camera name, 'Add' implies the event will be added to this camera; 'Overwrite' represent the event already exist for the camera, and the new event will overwrite the original one.

Tip: When there are multiple cameras, using events copy can speed up the configuration process.

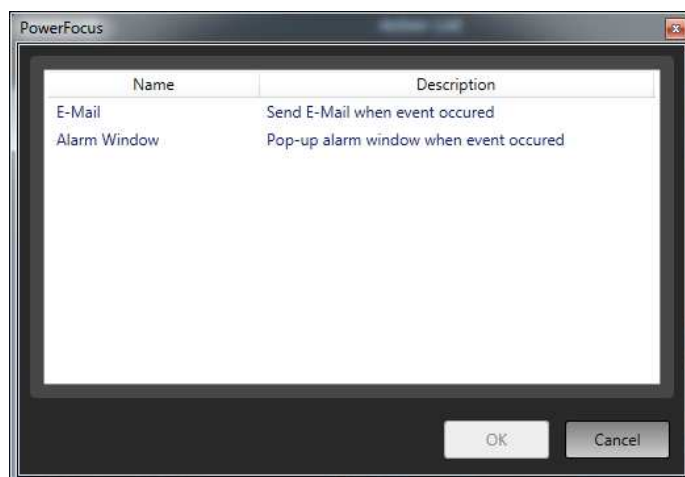
5.4.2 Action List

When completed event assignment for the camera, proceed with assigning follow actions to the camera event, as well as what actions for the administrator to execute.



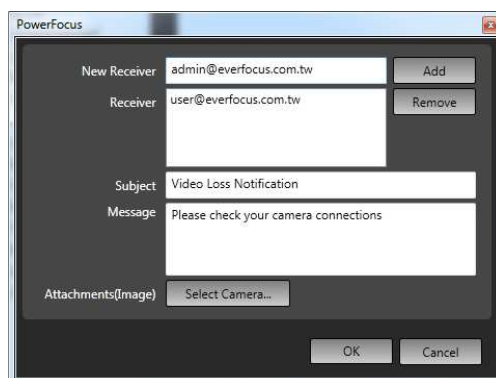
Action list

Add Action: Select the camera event, click 'Add', and select desired action in the new pop up window.



Action list window

If selected action is send e-mail, after clicking 'OK', an e-mail setup window will appear as shown below; add/remove receiver, enter mail title and message content. Click 'Select Camera...' to attach a video snapshot from the selected camera.



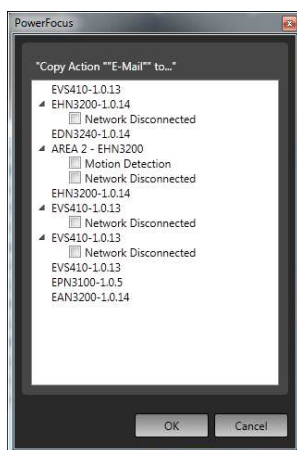
Send e-mail setup window

Note: This action is related to SMTP server setup; in order to successfully send e-mail, the SMTP server must be configured and tested. Please refer to chapter SMTP for related setup.

Remove Action: Select action in action list, click 'Remove'.

Set Action: Select the desired action in action list, click 'Set' to edit. If the setup icon is marked with white, then the action does not need to be configured.

Copy Action: Select the action in action list, click 'Copy', a pop out window 'Copy action <> to....' will appear as shown below. Multiple events for the camera can be selected, and clicking 'OK' will copy the action to the checked camera events.



Copy action window

Tip: When there are multiple cameras, using copy actions can speed up the configuration process.

PowerFocus®

EverFocus Central Management Software

for Network Video Recording

USER'S MANUAL

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